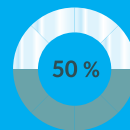
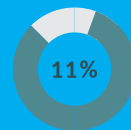
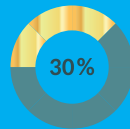
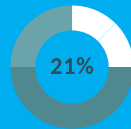
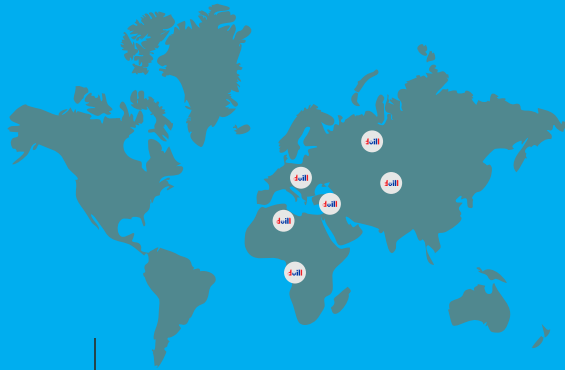




Lubricant
Catalogue

doill

Doill is a petrochemical company. Doill helps meet the world's growing oil demand in environmentally and socially responsible ways.



AUTOMOTIVE
60%

With a wide range of products, we provide all the products that the automotive industry needs. In addition, doill motor oils are Turkey's leader as a "Price / Performance" product.

INDUSTRY
30%

We provide efficiency above the standards with a wide range of products suitable for the use of high-tech industrial machines.

OTHER
10%

We offer special mineral oil products and special chemical solutions for glycol groups.

Made In TURKEY

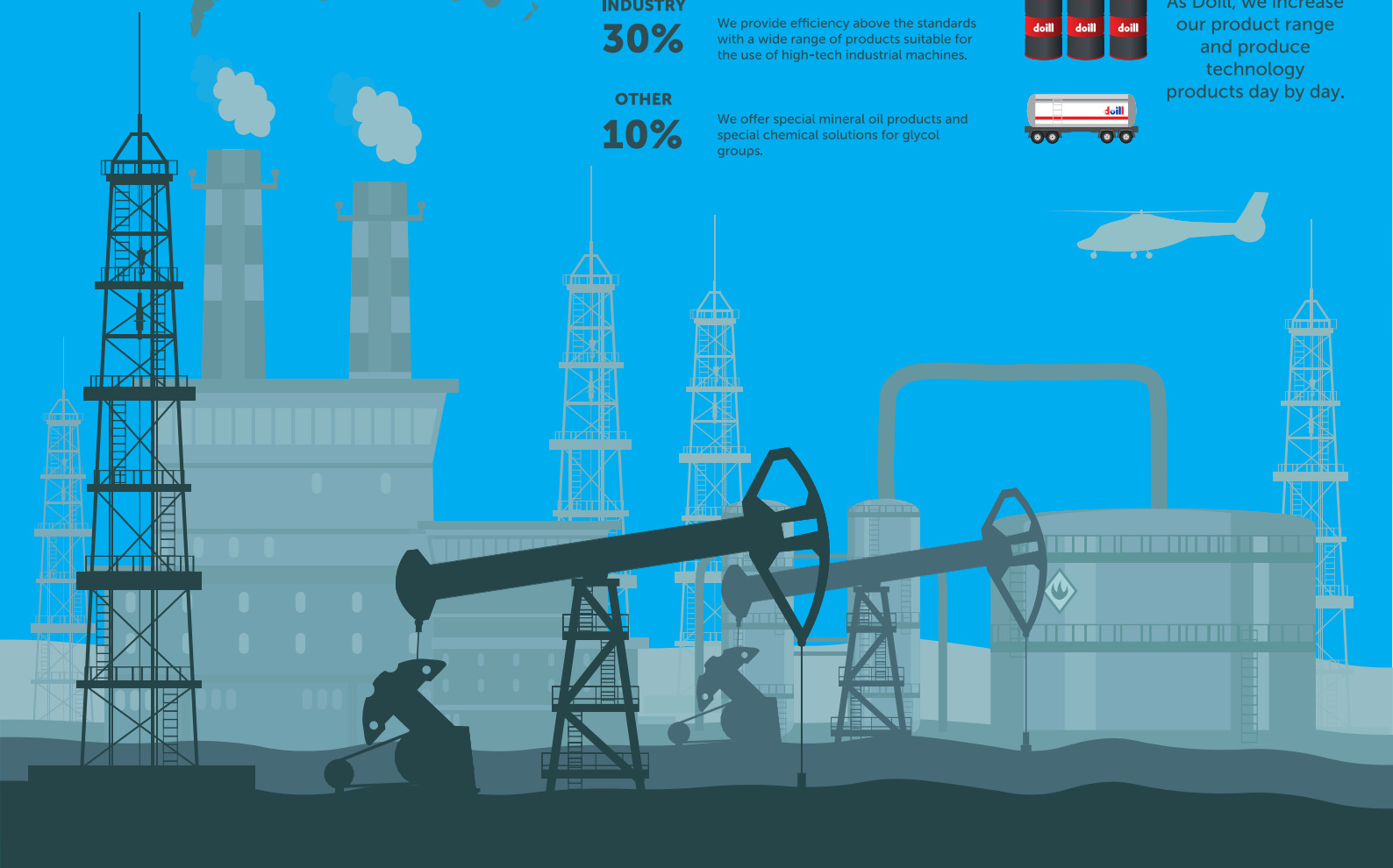
As Doill, we maintain our made in Turkey identity as the industry leader by producing and selling quality synthetic oil used in the market in the Turkey.

Worlds Need

In the medium and long term, we aim to provide best price/performance lubricants to the world with our competitive and high-performance products.



As Doill, we increase our product range and produce technology products day by day.





HYBRID

Plus+



HYBRID



EXTREME

Plus+



EXTREME



MASTER

Plus+



MASTER



...SPEED RACER



TESLA

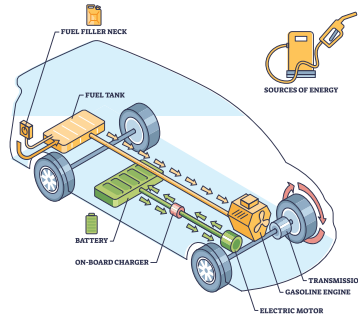


Doill Hybrid Series Performance Levels



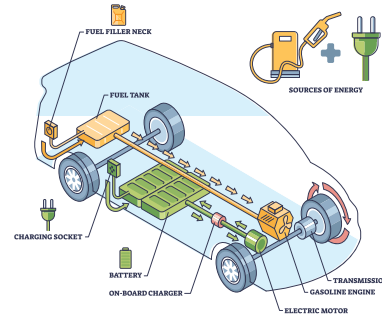
HEV

HYBRID ELECTRIC VEHICLE



PHEV

PLUG-IN HYBRID ELECTRIC VEHICLE



**Doill HYBRID
GT-200 0W/20**

**Doill HYBRID
GT-400 0W/16**

**Doill HYBRID
PLUS+ X1 0W/20**

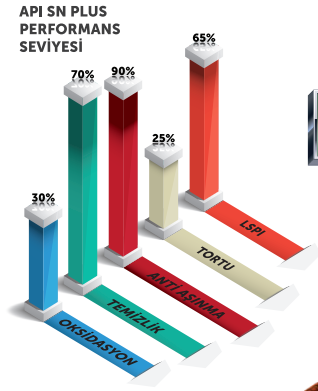
**Doill HYBRID
PLUS+ X2 0W/16**

Meets or exceeds the following performance levels:

	Doill HYBRID GT-200 0W/20	Doill HYBRID GT-400 0W/16	Doill HYBRID PLUS+ X1 0W/20	Doill HYBRID PLUS+ X2 0W/16
ACEA	ILSAC GF-5, GF-6	ILSAC GF-5, GF-6, GF-6B	ILSAC GF-5, GF-6	ILSAC GF-5, GF-6, GF-6B
API	SN, SN Plus, SP, Resource Conserving	SN, SN Plus, SP, Resource Conserving	SN, SN Plus, SP, Resource Conserving	SN, SN Plus, SP, Resource Conserving
GM	Dexos 1 Gen 2		Dexos 1 Gen 2	
FORD	WSS-M2C962-A WSS-M2C947-A, WSS-M2C946-A WSS-M2C945-A		WSS-M2C962-A WSS-M2C947-A, WSS-M2C946-A WSS-M2C945-A	
TOYOTA	HYBID CARS		HYBID CARS	
HONDA	HYBID CARS		HYBID CARS	
NISSAN	WSS-M2C 913C / 913D		WSS-M2C 913C / 913D	
CHYRLER	MS-6395		MS-6395	
FIAT	9.55535-CR1, 9.55535-GSX		9.55535-CR1, 9.55535-GSX	
SUZUKI	HYBID CARS		HYBID CARS	
MITSUBISHI	HYBID CARS		HYBID CARS	
MAZDA	HYBID CARS		HYBID CARS	

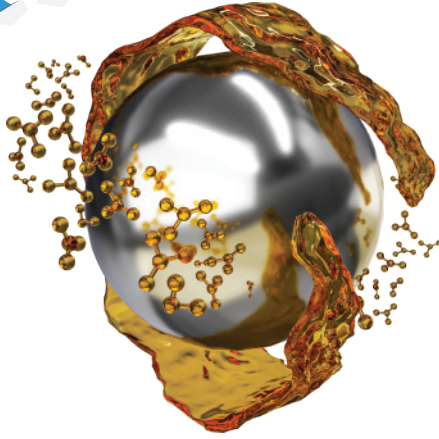
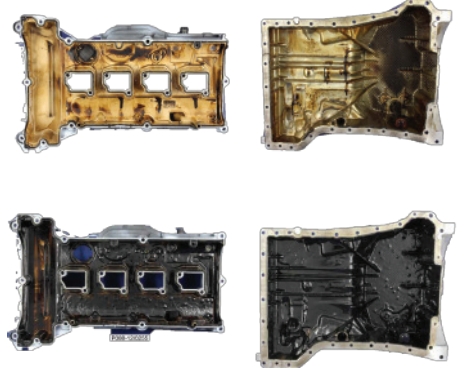
PAO

Doill Extreme Performance Levels



EXTREME

Others



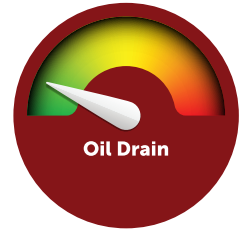
	Doill EXTREME xp8000 0W/30	Doill EXTREME xp8400 0W/40	Doill EXTREME xp6000 5W/30	Doill EXTREME xp6100 5W/40	Doill EXTREME PLUS+ X2 0W/20	Doill EXTREME PLUS+ X3 0W/30	Doill EXTREME PLUS+ Z3 5W/30
Meets or exceeds the following performance levels:							
ACEA	C3	C3	C3	C3	C5	C3	C3
API	SN	SN	SN	SN	SN	SN	SN
DİĞER							
BMW	Longlife-04	Longlife-04	Longlife-04	Longlife-04		Longlife-04	Longlife-04
MERCEDES	MB 229.31/ 229.51/ 229.52	MB 229.31/ 229.51	MB 229.31/ 229.51/ 229.52	MB 229.31/ 229.51/ 229.52	MB 229.71/ 229.51/ 229.52	MB 229.31/ 229.51/ 229.52	MB 229.31/ 229.51/ 229.52
VOLKSWAGEN	VW 504 00/ 507 00	VW 502 00 / 505 00	VW 504 00/ 507 00	VW 505 00 / 505 01	VW 508 00/ 509 00	VW 504 00/ 507 00	VW 504 00/ 507 00
PORCHE	C 30	A 40	C 30		C 20	C 30	C 30
PEUGEOT CITROEN			B71 2290-2297				B71 2290-2297
CHRYSLER			MS-11106		MS-6395		MS-11106
FORD				Ford WSS-M2C917-A	WSS-M2C930-A WSS-M2C947-A WSS-M2C947-B1		
RENAULT	RN 0700 / RN 0710	RN 0700 / RN 0710		RN 0700 / RN 0710		RN 0700 / RN 0710	
FIAT	955535.GS1 955535.DS1	9.55535-S2		9.55535-S2 ,9.55535-GH2		955535.GS1 955535.DS1	
GM	Dexos2*	Dexos2*		Dexos2*	Dexos2*	Dexos2*	

PAO

EXTREME SERIES

Doill Speed Racer Performance Levels

SPEED RACER



**Doill SPEED RACER
RS 100 10W/60**

**Doill SPEED RACER
RS 200 5W/50**

Meets or exceeds the following performance levels:

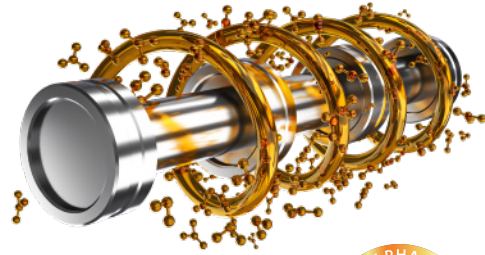
ACEA	A3/B4	C3
API	SN	SN
ALFA ROMEO	ALFA ROMEO GT Series	ALFA ROMEO All Models
BMW	BMW M-Models	BMW High Performance Diesel Oil
MERCEDES	MB 229.31 / 229.51	MB 229.31/ 229.51/ 229.52
VOLKSWAGEN	VW 501 01 / 505 00	VW 501 01 / 505 00
FIAT	FIAT 9.55535-H3	
ASTON MARTIN	ASTON MARTIN	
AUDI	AUDI R8 5.2L GT (CMPA	
PORCHE		A40
JAGUAR	JAGUAR	
LANCIA	LANCIA	
LOTUS	LOTUS	
FORD	TVR	FORD WSS M2C-931C

Doill Master Performance Levels



MASTER SERIES

MASTER



	Doill MASTER xp5000 5W-30	Doill MASTER xp5400 5W-40	Doill MASTER xp3000 10W-40	Doill MASTER PLUS+ M3 0W/30	Doill MASTER PLUS+ M1 5W/30
Meets or exceeds the following performance levels:					
ACEA	A5/B5	A3/B4	A3/B4	A5/B5	A5/B5
API	SM/CF	SM/CF	SM/CF	SL/CF	SM/CF
BMW		Longlife-01	BMW Special Oil	Longlife-01	
MERCEDES		MB 226.5, MB 229.3	MB 229.1		
VOLKSWAGEN		VW 502 00 / 505 00	VW 501 01 / 505 00		
PEUGEOT CITROEN		B71 2296	(B71 2294 & B71 2300)		
FORD	WSS-M2C 913D / 913A / 913B / 913C				WSS-M2C 913D / 913A / 913B / 913C
RENAULT		RN 0700 / RN 0710	RN 0700 / RN 0710		
FIAT		9.55535-H2, 9.55535-M2, 9.55535-Z2	9.55535-D2		
GM		GM-LL-A-025, GM-LL-B-025			
JAGUAR LAND ROVER	STJLR.03.5003				STJLR.03.5003
PORSCHE		A40			
VOLVO	VCC 95200377			VCC 95200377	

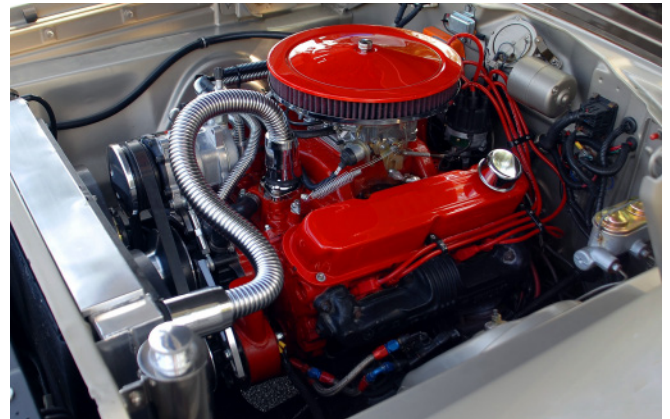
PAO

Doill Tesla Performance Levels



Doill TESLA RTX 3000 10W/40	Doill TESLA RTX 2000 15W/40	Doill TESLA RTX 1000 20W/50	Doill TESLA RTX 1000 20W/50
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Meets or exceeds the following performance levels:				
ACEA	A3/B4	A3/B4	A3/B4	A3/B4
API	SL/CF	SF/CF	SL/CF	SF/CF
ILSAC				ILSAC GF-5
MERCEDES		MB 229.1		
VOLKSWAGEN		VW 501 01 / 505 00		
FIAT		FIAT 9.55535-D2		
CHRYSLER				MS-6395
GM				GM 6094M
FORD				FORD WSS-M2C921-A
VOLVO				9.55535-G1



Technical Information

Classifications Used Worldwide

Engine oil manufacturers classify the oils and put them on the market. The classifications determine the viscosity and performance level of motor oils. This information is located on the front or back label of the product.

SAE

US Society of Automotive Engineers

Viscosity Definitions

API

American Petroleum Institute

Classifications according to engine and laboratory tests

ACEA

European Automobile Manufacturers Association

European classifications according to engine and laboratory tests applied since 1996

ILSAC

International Oil Standardization Approval Committee

Improves engine oil standards. The latest standard is GF-5.

JASO

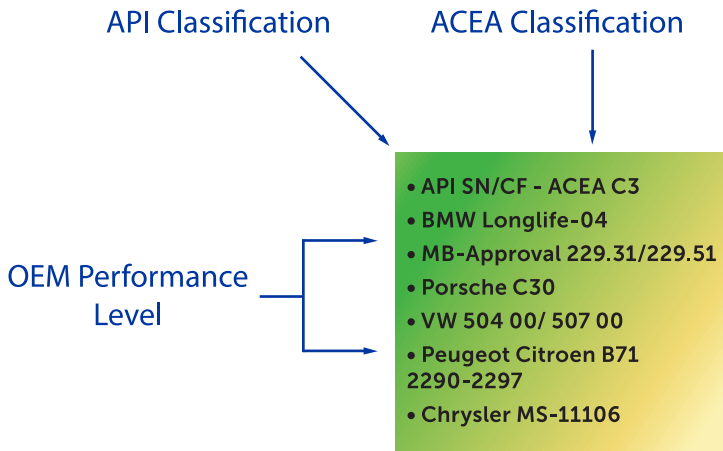
Japan Automotive Standards Organization

It develops performance and quality standards for gasoline engines of Japanese origin.

Doill Extreme 5W/30 back label example

TR Doill EXTREME OIL 5W/30, dizel araçlarda bulunan en yeni dizel partikül filtreleri (DPF'ler) ve benzinli araçlarda bulunan katalitik konvertörler (CAT'ler) ile tamamen uyumlu olan, özel bir karışım olarak üretilmiştir. Doill EXTREME OIL 5W/30, üstün performans ve korumanın yanı sıra yakıt ekonomisinde yarar sağlamaya yardımcı olmak amacıyla tasarlanmıştır. Stop - Start'lı araçlar için tavsiye edilir.

EN Doill EXTREME OIL 5W/30 oils help prolong the life and maintain the efficiency of emission systems in both diesel and gasoline powered automobiles. They are formulated to be fully compatible with passenger car diesels that have the latest Diesel Particulate Filters (DPFs) and Gasoline Catalytic Converters (CATs). Doill EXTREME OIL 5W/30 oils help deliver outstanding performance and protection. Recommended for Stop - Start's cars.



Made in Turkey



Viscosity

The force of liquids to oppose fluidity is called **viscosity**. It is also known as viscous material among the people. Viscosity in engine oils is located at the front of the oil drums.

The class of a motor oil is determined by its viscosity value.

Engine oil with the correct viscosity value should be preferred for maximum engine performance.



5W

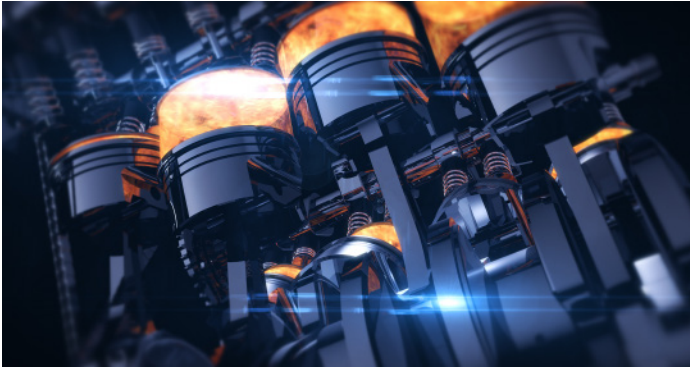
WHEN THE ENGINE RUNS COLD
VISCOSITY OF ENGINE OIL

30

AT ENGINE WORKING TEMPERATURE
VISCOSITY OF ENGINE OIL

5W/50

Speed Racer 5W/50 is the most performance engine oil produced by doill engine oils, designed according to formula 1 standards, providing the high viscosity required by the engines used in revving in motor sport vehicles and at the same time providing ultra lubrication, superior cleaning in engines thanks to its high TBN value. With its fully synthetic structure, doill's Titanium-Gold Alloy Technology and superior performance additives, it provides superior performance in new generation vehicles. It is recommended for performance engines where high viscosity is required. In addition, it provides the necessary compressor efficiency by filling the gaps needed by the engine in worn and worn engines, reducing engine noise and oil burning.



USAGE RECOMMENDATIONS

- It is suitable for new generation, high horsepower diesel, gasoline and LPG vehicles (you can use it in vehicles with DPF).
- It is designed for modified vehicles used in motor sports.
- It is suitable for use in all old vehicles (including LPG).
- Recommended for vehicles that burn oil, have a noisy engine and smoke (We recommend Speed Racer 10W/60 for better treatment on old vehicles.)
- It is recommended that you wait for a minimum of 45 seconds when you start your vehicle for the first time.

10W/60

Speed Racer 10W/60 is a fully synthetic performance oil produced for vehicles that need high performance. It is designed according to formula 1 standards, providing high viscosity at high temperatures and low viscosity at low temperatures. It is the most performance engine oil produced by doill engine oils that provide the high viscosity required by the engines used in revving and at the same time make ultra lubrication in vehicles used in motor sports. With its fully synthetic structure and superior lubricating additive technology, it provides superior performance in new generation vehicles. It is recommended for performance engines where high viscosity is required. In addition, it provides the necessary compressor efficiency by filling the gaps needed by the engine in worn and worn engines, reducing engine noise and oil burning.

USAGE RECOMMENDATIONS

- Recommended for new generation gasoline vehicles and old model Diesel, Gasoline and LPG vehicles.
- Designed for modified vehicles used for motor sports.
- It is suitable for use in all old vehicles (including LPG vehicles).
- Recommended for vehicles that burn oil, have a noisy engine and emit smoke (10w/60 engine oil, such as 5W/30, 0W/20, 0W/30, 0W/40 and 0W/16 engines used in vehicles with particulate filters and other new generation engines. Not recommended as a substitute for essential oils).
- When you start your vehicle for the first time, it is recommended to wait at least 45 seconds before moving.



**HEAVY DUTY
VEHICLE OILS**



CONQUEROR 9000 LME

E9 5W/30

FULLY-SYNTHETIC

LME D.P.F
(dizel partikül filtre)



CONQUEROR 6000 LM

E9 10W/40

FULLY-SYNTHETIC

LM D.P.F
(dizel partikül filtre)



CONQUEROR 5000 M

E7 10W/40

FULLY-SYNTHETIC

**M HEAVY DUTY
DIESEL ENGINE OIL**



CONQUEROR 3000 MX

E7 15W/40

SYNTHETIC

**MX HEAVY DUTY
DIESEL ENGINE OIL**

Doill Conqueror Performance Levels



CONQUEROR SERIES

Doill Conqueror
9000 XL 5W-30

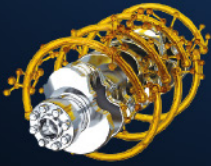
Doill Conqueror
6000 LM 10W-40

Doill Conqueror
5000 M 10W-40

Doill Conqueror
3000 M 15W-40

Meets or exceeds the following performance levels:

	Doill Conqueror 9000 XL 5W-30	Doill Conqueror 6000 LM 10W-40	Doill Conqueror 5000 M 10W-40	Doill Conqueror 3000 M 15W-40
ACEA	E9	E9	E4/E7-8 A3/B4-16	E4/E7-8 A3/B4-16
API	CI-4+ API SN	CI-4+ API SN	CI-4 SJ/SL	CI-4 SJ/SL
DIĞER	Global DHD-1 MAN M3477 M2171-1 MTU Type 3.1 JASO DH-2 Level ISUZU Scania LDF-3, LDF-4 DAF (ACEA 2016) IVECO – (ACEA 2016)	Global DHD-1 MAN M3477 M2171-1 MTU Type 3.1 JASO DH-2 Level ISUZU Scania LDF-3, LDF-4 DAF (ACEA 2016) IVECO – (ACEA 2016)	Global DHD-1 MAN M3275 MTU Type 2 JASO DH-1 Level ISUZU SCANIA DAF IVECO – NG2	Global DHD-1 MAN M3275 MTU Type 2 JASO DH-1 Level ISUZU SCANIA DAF IVECO – T2E7
COMPATIBLE FUELS	CNG, Heavy Duty Diesel, LPG, Petrol	CNG, Heavy Duty Diesel, LPG, Petrol	CNG, Dual-Fuel, Heavy Duty Diesel, LPG, Petrol	CNG, Dual-Fuel, Heavy Duty Diesel, LPG, Petrol
MERCEDES	MB 228.31	MB 228.31	MB 228.51, 226.9	MB 228.3
CATERPILLAR	CAT ECF-1a, CAT ECF-2, CAT ECF-3	CAT ECF-1a, CAT ECF-2, CAT ECF-3	CAT ECF-1a, CAT ECF-2	CAT ECF-1a, CAT ECF-2
MACK CLAIMS	Mack EOS 4.5, Mack EO-O Premium Plus	Mack EOS 4.5, Mack EO-O Premium Plus	Mack EO-M Plus, Mack EO-N	Mack EO-K/2, Mack EO-M Plus, Mack EO-N
RENAULT	Renault Truck RLD-3, Renault Truck RLD-4	Renault Truck RLD-3, Renault Truck RLD-4	Renault Truck RLD-2	Renault Truck RLD-2
VOLVO	Volvo VDS-4, VDS-4.5	Volvo VDS-4, VDS-4.5	Volvo VDS-3	Volvo VDS-3
CUMMINS	CES 20086 ,CES 20081	CES 20086 ,CES 20081	CES 20078	CES 20078,77,76,75,72,71
DETROIT DIESEL	93K222, 93K218	93K222, 93K218		93K215
MAGIRUS	DEUTZ DQC IV-10 LA	DEUTZ DQC IV-10 LA	DEUTZ DQC IV-10	DEUTZ DQC III-10



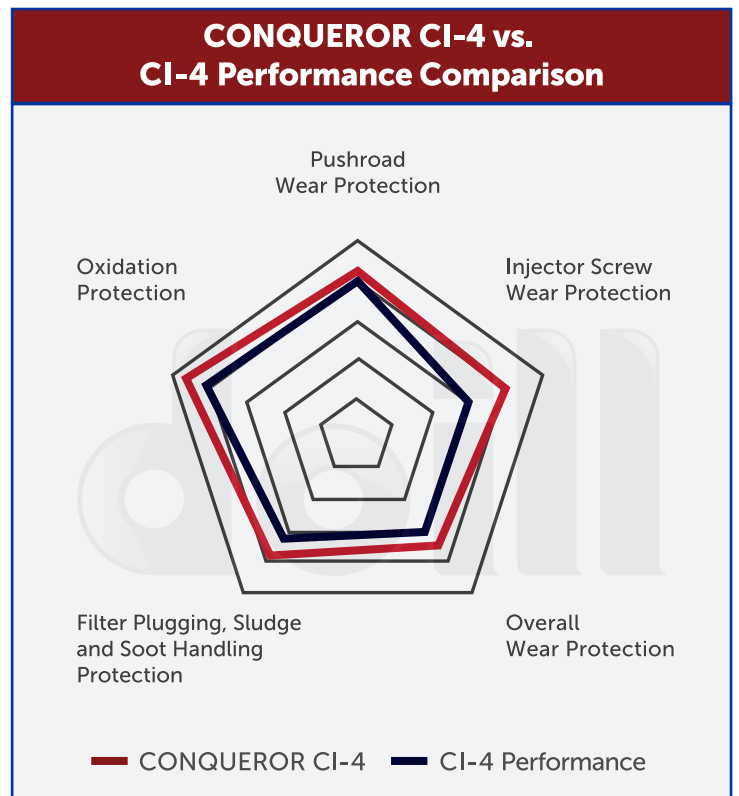
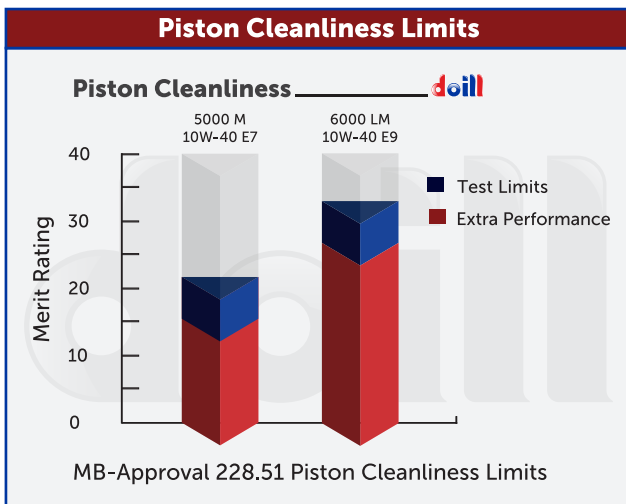
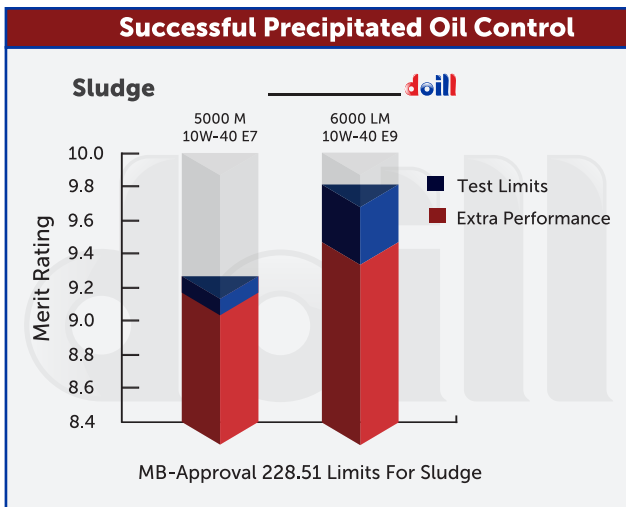
CONQUEROR SERIES

- High performance lubrication
- Not preventing acid formation
- Ultra protection against engine wear
- Minimizing oil reduction
- Fault-free, driving quality improvement



Conqueror Series

We developed Doill Conqueror to keep you moving towards your goal and to help protect against engine wear. Doill Conqueror provides high performance in different driving conditions. As the Doill family, we do not want the disruptions on the road to reduce your journey quality. We developed the Doill Conqueror series to help you reach your destination on long journeys.



**MOTORCYCLE
OILS**



TULPAR 4T
RACER 7100
10W/40



TULPAR 4T
RACER 5100
15W/50

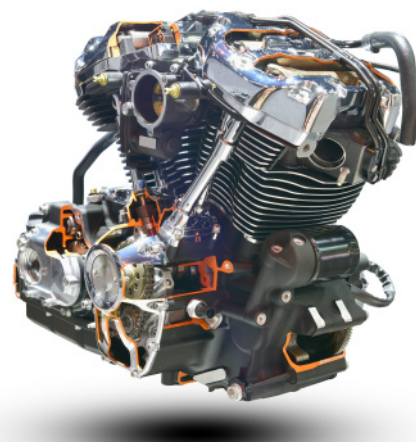


TULPAR 4T
RACER 1000
10W/40



MOTORLUBE
2T

Doill Tulpar Racer - Ester Overclock Performance Levels



**TULPAR RACER 4T
7100 10W/40**

**TULPAR RACER 4T
5100 15W/50**

**TULPAR RACER 4T
3000 10W/40**

**MOTORLUBE
2T**

Meets or exceeds the following performance levels:

	TULPAR RACER 4T 7100 10W/40	TULPAR RACER 4T 5100 15W/50	TULPAR RACER 4T 3000 10W/40	MOTORLUBE 2T
ACEA	A3/B4	A3/B4	A3/B4	A3/B4
API	SN	SM	SL	SL
JASO	JASO MA2	JASO MA2	JASO MA2	JASO MA
JASO	Euro 2 - Euro 3 KTM HUSQVARNA MOTO GUZZI Street Bikes Scooters ATV - UTV	Euro 2 - Euro 3 KTM HUSQVARNA MOTO GUZZI Street Bikes Scooters ATV - UTV	Euro 2 Euro 3 Street Bikes Scooters ATV Mopeds	Euro 2 Euro 3 Street Bikes Scooters ATV Mopeds

**AUTOMATIC
TRANSMISSION OILS**



**ATF 220
DEXRON IID**



**ATF 320
DEXRON III**



**ATF 620
DEXRON VI**



**ATF LT71141
FULLY SYNTHETIC**



**TRANCEMAX
FULLY SYNTHETIC CVT**



**TRANCEMAX
FULLY SYNTHETIC DUAL**



**LIFE KEEPER
8 SPEED**




**ATF MB 9G
236.17**

Doill Automatic Transmission Oils Performance Levels


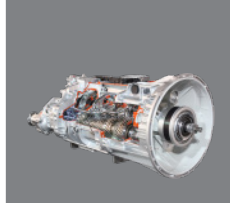

Doill Trancemax DUAL







Doill Trancemax CVT

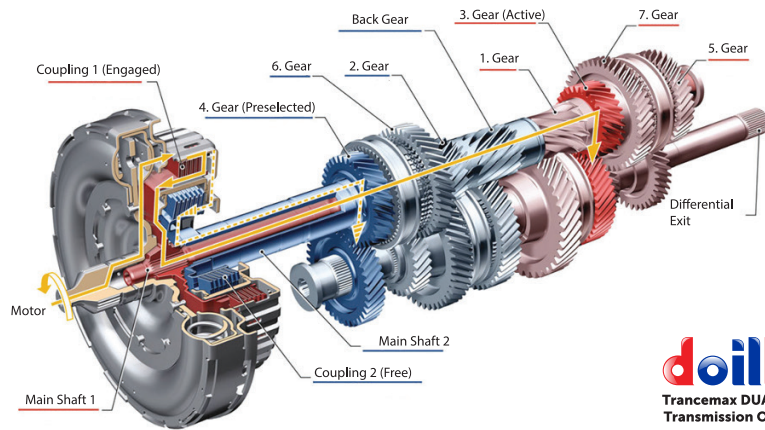
Meets or exceeds the following performance levels:

OEM GRUP	SPESIFICATION	OEM GRUP	SPESIFICATION
API	GL-4	DODGE / JEEP CHRYSLER	CVT+4 NS-2 05191184AA
BMW	BMW Drivelogic 7-speed (Getrag)/DCTF-1 BMW 6-speed DCT BMW MTF LT-5 - BMW DTF 1 BMW MTF-LT-3 - DKG P/N 83 220 440 214 - P/N 83 22 2167 666 P/N 83 22 2 409 710 - P/N 83 22 0 397 244 P/N 83 22 0 306 816 - P/N 83 22 21 47 477 P/N 83 22 21 48 578 - P/N 83 22 21 48 579	BMW	EZL 799A 83 22 0 136 376 83 22 0 429 154
MERCEDES	MB 236.25 - SLS A 001 989 86 03 MB 236.24	MERCEDES	MB-Approval 236.20 A 001 989 46 03
AUDI / VW	TL 52529 (spec) / G 052 529 A2 or A6 (fluid) / DSG7 = S-Tronic 7/ 7 speed VW (Audi, Seat, Skoda) TL 521 82 (spec) / G 052 182 A2 or A6 (fluid) VW (Audi, Seat, Skoda) 6-speed G 009 317 - G 052 171 - G 052 178 G 052 512 - G 052 527 - G 052 726 G 052 798 - G 055 512 - G 055 529 G 055 549 - G 060 726 - G 070 726	AUDI / VW	AUDI Multitronic TL 521 16 (G 052 516) TL 521 80 (G 052 180 A2)
PEUGEOT CITROEN	PSA DCS 6-speed (GFT)/9734.S2 JWS 2271 - 9730 A8 - P/N 1618078480	PEUGEOT CITROEN	Citroën Elfmatic CVT
FERRARI	7-speed (Getrag)/TE DCT-3	FIAT	Tutela Car CVT N.G
MITSUBISHI	TC-SST 6-speed (GFT) / MZ320065 DiaQueen SSTF-1	MITSUBISHI	CVTF-J1 (MMC Diaqueen CVT Fluid J1) CVTF-J4 and -J4+ (MMC Diaqueen CVT Fluid J4 and J4+) (Diaqueen) SP-III (CVT model only)
FORD	Powershift 6-speed (GFT) WSS-M2C936A - part # 1490763/1490761 WSS-M2C-200-D2 - WSS-M2C-200-D3, WSS-M2C-200-E1	HONDA	Z-1 (CVT model, without starting clutch, not Yes for 2001-2007 Honda Fit & Jazz) - HCF2 HMMF (without starting clutch)
CHRYSLER	Powershift 6-speed (Getrag) 68044345 EA & GA	CHRYSLER	NS-2 - CVTF+4
VOLVO	BOT 341 - P/N 1161838 P/N 1161520-7	VOLVO	CVT 4959
RENAULT	EDC 6-speed (Getrag) - EDC-7 EDC - DC4 - BOT 450	RENAULT	Elfmatic CVT - Elfmatic CVT MV - CVT CK/SK/FK
NISSAN	Powershift 6-speed (GFT) Nissan Genuine Transmission Oil R35 Special - GT-R R35 - GR6 - Nissan DCT Fluid - Nissan LV MT-1	NISSAN / INFINITI	CVT Fluid NS-1 CVT Fluid NS-2 CVT Fluid NS-3
DS	DCS, PSA Part Number 9734 S2 JWS 2271 - 9730 A8 - P/N 1618078480	SUBARU	Lineartronic High Torque (HT) CVT Fluid, K0421Y0700 Lineartronic chain CVT and CVT II Fluid, K0425Y0710 iCVT - iCVT F and FG - ECVT - NS-2 Fluid TC
BUGATTI VEYRON		DAIHATSU	AMMIX CVT Fluid DFE - DFC AMMIX CVTF DFE - DC
HONDA	MTF-III	GM	Saturn DEX-CVT
PORCHE	PDK - Part Number 043 207 29 P/N 043 207 30 - P/N 000 043 20 P/N 999 917 546 00 - Porsche TF 0870 P/N 000.043.305.63 - P/N 999.917.080.00	HYUNDAI / KIA	SP III (CVT model) CVT-1 Genuine CVTF
TOYOTA	LF , Toyota LV 75W MT , JWS 2271 , 0888581001	TOYOTA / LEXUS	CVT Fluid TC – FE CVTF 3320
		SUZUKI	CVT Green 1V - CVT Green 2 CVT Green 1 - NS-2 CVTF 4401 - CVTF 3320 - CVTF TC
OTHER	Borg Warner DCT-1 Pentosin FFL 52529/ TL 52529-C/ G055 529 Pentosin FFL 4 - Pentosin FFL 3 Pentosin FFL 2 PDK transmissieolie voor ZF (DCT Transmission Oil for ZF) ZF/Porsche Oil #999.917.080.00 SAE 75W	OTHER	Chery CVT Fujijyuko i-CVTF FG Idemitsu CVTS-EX1 Mazda JWS 3320 MG Rover EM-CVT Punch CVT Mopar CVTplus4, CVT+4

Doill Trancemax Dual Performance Levels

		
<ul style="list-style-type: none"> • Comfortable Gear Shifts • Long life • Ideal RPM • Fuel saving 	<ul style="list-style-type: none"> • Torque Capacity • Fuel saving • Serial Gear Shifts • High performance and Efficiency 	<ul style="list-style-type: none"> • Fuel Efficiency in 6 speed + applications • Torque Capacity • Comfortable Take-off
<ul style="list-style-type: none"> • Limited Torque Capacity • Weak Acceleration • Poor Ride Quality 	<ul style="list-style-type: none"> • Take off is not as comfortable as Stepped Automatic • Heating and Mechanical Failure 	<ul style="list-style-type: none"> • Fuel Efficiency in applications less than 5 speed • Package Size

Copper Corrosion Performance		
Doill Trancemax CVT	Referans	Diğer Markalar
		
1. Copper Record test	1. Copper Record test	1. Copper Record test
		
2. Copper Record test	2. Copper Record test	2. Copper Record test
1. Quality	2. Quality	3. Quality



Use of

Doill Trancemax Dual is a fully synthetic SAE 75W viscosity value, dual clutch transmission fluid. This product meets the performance values of major vehicle and equipment manufacturers, Audi, Ford, Peugeot, Renault, BMW, Porsche, Volvo, Mitsubishi and Chrysler (European made models). Also suitable for 6-speed dual clutch DSG of Volkswagen, Seat and Skoda.

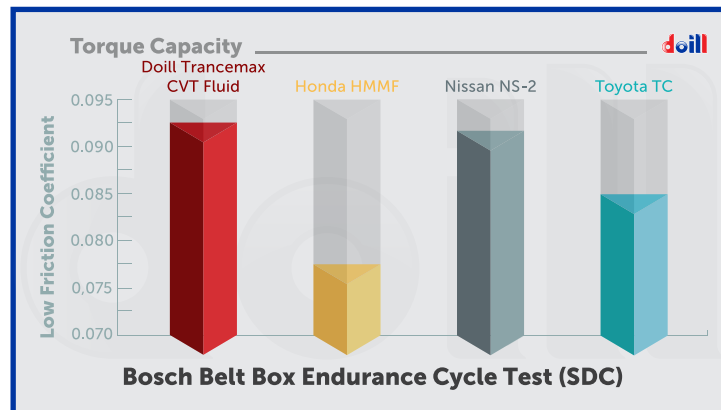
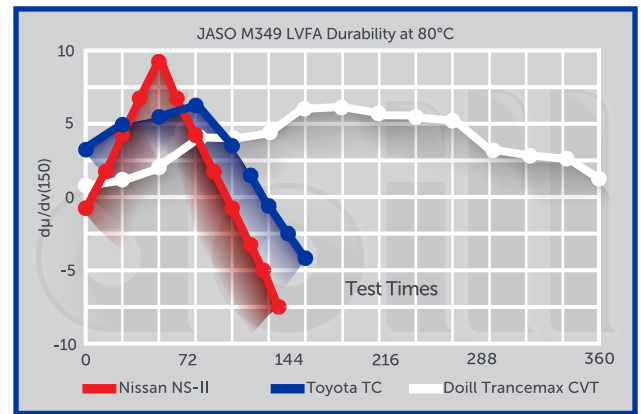
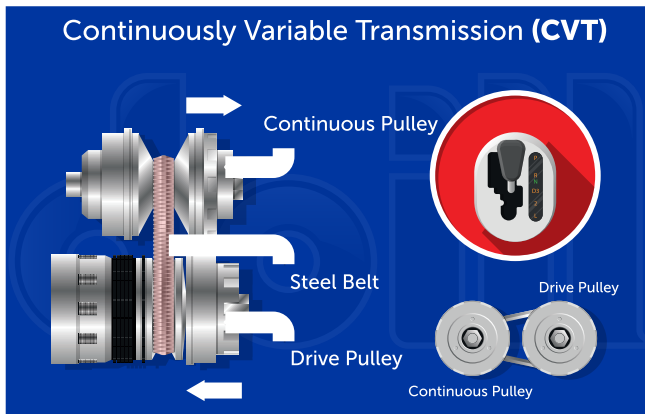
In addition, it meets the performance level of FE 75W transmission oil, and you can easily use Doill Trancemax Dual wherever FE 75W transmission oil is used.

Performance

Advantages of Doill ATF Trancemax Dual synthetic blend for automatic transmission shifts:

- Provides exceptional copper corrosion protection for better hardware durability
- Provides long-lasting oil usage and prevents oil deterioration at high operating temperatures.
- Provides excellent oxidation control to provide longer fluid life.
- Eliminates NVH (Noise Vibration and Harshness) and improves ride quality by providing exceptional torque capacity retention to provide the perfect shift feel.
- Provides oxidation and thermal stability.
- It is fully synthetic.
- Provides smooth gear shifts at low temperatures with its optimized friction feature.
- It provides protection against vibrations in gear shifts.
- Provides extra protection against greasing and residue formation.
- It provides protection thanks to its improved film-forming feature to extend the gear transition life.
- In cold conditions, it protects the fluid structure and protects the gearbox in the first start.
- It has been tested against all weather conditions.

Doill Trancemax CVT Performance Levels



Use Of

Doill Trancemax CVT, as a fully synthetic oil, is a transmission fluid produced especially for use in continuously variable transmissions (CVT) of Japanese passenger cars and other recommended European vehicles. Its superior technology provides longer transmission life.

It is recommended for the drive system in passenger cars. The Doill Trancemax CVT provides higher torque capacity, protection against wear, longer oil performance and a longer comfortable ride for drivers.

Performace

The advantages of Doill Trancemax CVT synthetic oil in automatic transmission transitions:

- It has higher torque capacity.
- It provides protection against wear on the interfaces of the pulleys of the drive gears.
- It provides superior operational efficiency by reducing the risk of loss in belts.
- Provides improved oxidation stability thanks to its excellent viscosity control.
- Provides friction profile maintenance for resistance to vibration.
- Prevents corrosion at metal-to-metal contact points in transmission system parts, especially belts and pulleys.
- Provides strong oil film and good shear stability and maintains oil pressure in the CVT system.
- Provides excellent thermal and oxidation stability.

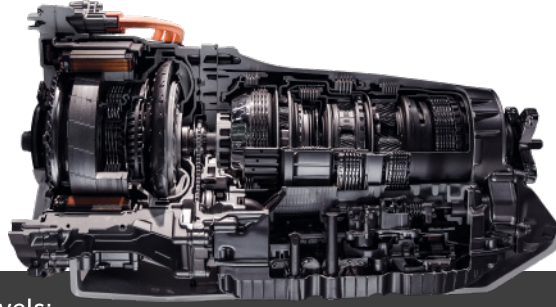
Recommended for CVT Transmission Applications of the Following Brands;

- TOYOTA
- NISSAN
- HONDA
- MITSUBISHI

Hybrid E-CVT ve Toroidal CVT not suggested

Doill DEXRON VI Performance Levels

Doill ATF
Dexron 6



Meets or exceeds the following performance levels:

OEM GRUP	SPESIFICATION	OEM GRUP	SPESIFICATION
JASO	M315-2013 2A M315-2013 1A-LV M315-2013 1A	MITSUBISHI DIAQUEEN	ATF PA AW - J3 - J2 SP-IV - SP-III - SP-II - SK
ZF	ZF 9 speed transmissions ZF 8 speed transmissions ZF all 3 & 4 speed transmission ZF TE-ML 21L, 11A, 11B, 09, 05L	HONDA	Type 3.1 - 3 DW-1 ATF ULTRA II ATF-Z1 (except in CVTs)
ALISON	ALISON C4	ISUZU	08200-9001 - SCS Fluid - BESCO ATF SP - BESCO ATF-III BESCO ATF-II
BMW	83 22 2 152 426 - LA2634 - LT71141 (ZF 5 HP 18FL/19- FL/24A) - ZF 5HP18FL, 5HP24, 5HP30 - 7045E - ETL 8072B - MINI - 83 22 0 026 922	JAGUAR	02JDE26444 - WSS-M2C922A1 - Fluid 8432 - JLM 20292 - K17 ATF 3403 JLM20238 - JLM20238 ATF LT71141, ZF 5HP24, ATF 3403 M115, ATF 3403-M115,
MERCEDES	MB 236.12, A 001 989 45 03, MB 236.14, A 001 989 68 03, MB 236.15 (except FE benefits), A 001 989 77 03, A 001 989 78 03, MB 236.41	TOYOTA	Hybrid ATF WS ATF T-IV ATF T-III - ATF D-III - ATF D-II
AUDI / VW	G 060 162 (ZF Lifeguardfluid 8) (ZF No. S671 090 312) G 055 162-A2, -A6 (ZF Lifeguardfluid 6 Plus) (ZF No. S671 090 281) G 052 162 (ZF Lifeguardfluid 5) (ZF No. S671 090 170) 052 055 - G 055 540 (A2) - G 052 990 - G 055 025 A2 (JWS 3309) - G 052 162-A1/A2 - G 053 025-A2 - G 052 025-A2 TL 521 62 - US 000 162 5HP (19FL, 24A - 18FL, 30 - HP 30)	PORCHE	Z 000169756 - 000 043 205 28 - 999 917 547 00 (A2) - 000 043 205 09 T-IV (JWS 3309) ATF 3403-M115, ZF 5HP19FL, ZF 5HP20, LT71141
BENTLEY MULSANNE	with 8-sp AT PY112995PA	LAND ROVER	LR023288
PEUGEOT CITROEN	(PSA) AL4 Automatic gearbox oil (#9730.AE) Z 000169756 - ZF 4HP20	MAZDA	ATF 3317 ATF N-1, S-1, F-1, FZ, ATF M-V, M-III, M-II
CHRYSLER DODGE JEEP	68171866AA - 68043742AA - 68157995AA - 68157995AB - 68218925AA - 05127382AA MOPAR AS 68 RC and AS 69 RC (T-IV), JWS 3309 ATF+, +2, +3 (MS 7176E)	HYUNDAI / KIA	Kia NUMM040 CH20 Red-1 040000C90SG - NWS 9638 JWS 3314 Dex-II/ SP-I SP-III - IV-RR - SPH-IV - SP-IV M (SP4-M) SP-IV (00232-1904/04500-00115)
FORD	ESP-M2C166H, XL-12 MERCON® LV (FF-WSS-M2C-938A/SF, XT-10 QLV) FNR5 (Mazda M5, XT-9-QMMM5) XT-2-QSM (Syn) - XT-2-QDX (M) WSS M2C 922A1, 924A (XT-8-QAW) JWS 3309 - WSS M2C 138CJ, 166H FNR5 (Mazda M5, XT-9-QMMM5)	SUZUKI	ATF 3317 ATF 3314 JWS 3309 ATF 2384K ATF 2326 - AT OIL 5D06 ATF AW-1
RENAULT	Samsung SATF-D Matic D2 DPO/AL4	NISSAN	MATIC FLUID S - K - J - D - C
FIAT	FIAT T-IV type, JWS 3309	SUBARU	ATF, ATF HP DEXRON®-II ATF 5AT K0140Y0700
GM	DEXRON®-VI 93160393 - 9986195 - 88900925 - 22717466 - 21005966 - 1940767 - 1940700	SAAB	93 160 393 93 165 147 T-IV (JWS 3309)
OTHERS	Acura ATF-Z1 Aisin Warner JWS 3309 (T-IV) & JWS 3324 (WS), AW-1 American Motors ATF +3 (MS7176-E) ATF RED 1, RED 1K Bosch TE-ML 09 CAT TO-2 Daewoo LT 71141 Daihatsu AMMIX ATF D-III SP Esso LT 71141 Fuso ATF-A4	OTHERS	Voith Svc Bltn #013 and #118 Voith 55.6335.xx (G607) Vickers M2950-S, I-286-S Texaco N402 - 8072B - 7045-E Ssang yong DSIH 5M-66 Scion (all vehicles) Saturn T-IV (JWS 3309) MINI COOPER T-IV Lexus JWS 3309 MAN 339A

Doill LT 71141 Performance Levels

Doill ATF
LT71141

Meets or exceeds the following performance levels:

OEM GRUP	SPESIFICATION	OEM GRUP	SPESIFICATION
ALISON	C4 TES-389B	DAEWOO	LT 71141
ZF	TE-ML 25C - 21L - 20 C - 17C - 16S - 16M - 14C - 14B - 11B - 09 - 05L - 04D - 03D Lifeguard 5, # S671 090 170 Lifeguard 6, # S671 090 255 All 3 & 4 Speed Transmission	HYUNDAI / KIA	Dex-II/ SP-II/ SP-III / SP-IV
JASO	JASO 1A	JEEP	ATF+3
MERCEDES	MB 236.81 MB 236.11	DAIHATSU	AMMIX ATF D-III Multi D3-SP
BMW	ETL7045E - ETL8072B - ZF 5HP18FL, 5HP24, 5HP30 - LT71141 (ZF 5 HP 18FL/19FL/24A) - LA2634	SUBARU	F6 - Red - KO410Y0700 ATF HP - SKU: SOA868V9241
AUDI / VW	Audi G 052 162-A1/A2/A6 (ZF Lifeguardfluid 5) Audi 5 HP LT71141 (ZF 5 HP 18FL/19FL/24A) VW TL 52162 - VW 50160 G 052 025-A2 - G 052 990 A2 G 055 025 A2, G 055 005 A1 / A2 / A6 G US 000 162	AUDI / VW	(B71 2294 & B71 2300)
CHRYSLER	ATF+, +2, +3 (MS 7176E) Dodge/Jeep 05127382AA	MITSUBISHI	P II, IIM, III, PA, J3, SP IV
RENAULT	Elfmatic J6 - Matic D2, D3 DPO/AL4	SUZUKI	AT Oil 5D06 - 2384K JWS 3314 - JWS 3317
PORCHE	Z 000169756 - 999 917 547 00 (A2), 000 043 205 09 - ATF 3403-M115, ZF 5HP19FL, ZF 5HP20, LT71141	HONDA / ACURA	DW 1/Z 1 ATF Z1 (except CVTs)
TOYOTA	ATF (D-III - WS - Type T, Type T-II - Type T-III - Type T-IV) JWS 2312D - JWS 3309 - JWS 3324, LF 08886-81015, # 08886-00405	ISUZU	(where Toyota T-IV is required)
VOLVO	97342 - 1161521 - 1161540 - CE 97340 - 97335 - 97325	DAIMLER	ATF +3, ATF +4
OPEL / GM	88900925 - 22 17466 - 21005966 - 1940773 - 1940771 1940700 - 19 40 767 - 19256039 - P/N 88861950 - P/N 88861951 - TASA DEXRON® - IIIH - IIIG - IIE - IID - II -	NISSAN / INFINITI	ATF FMS - MATIC S - MATIC D MATIC-J - MATIC K - MATIC W
FORD	ESP-M2C166H, XL-12 XT-2-QSM (Syn) - XT-2-QDX (M) WSS M2C 138CJ, 166H MERCON®	LAND ROVER	M1375.4 - TYK500050 STC 4863
JAGUAR	JLM 20292 - ATF 3403 JLM20238 - ATF LT71141 ZF 5HP24	BENTLEY	PY112995PA
FIAT	9.55550-AV1, 9.55550-AV2, 9.55550-AV4	ROLLS ROYCE	PL 31493PA
GM	21005966 - 1940700 DEXRON® - IIIH - IIIG - IIE - IID - II - TASA	MASERATI	231603
FORD	ESP-M2C166H, XL-12 XT-2-QSM (Syn) - XT-2-QDX (M) WSS M2C 138CJ, 166H MERCON®	MINI	ASW 3309 83 22 0 402 413
PEUGEOT / CITROEN	Automobiles B71 2340 (PSA) AL4 Automatic gearbox oil (#9730 AE - 9730 AC - 9735 EJ) JWS 3309 - Z 000169756	SATURN	T-IV - 22686186
MAZDA	ATF F-1 - ATF M-III - ATF M V - JWS 3317 - FZ - ATF D-II	SAAB	JWS 3309 - 93 165 147
OTHERS	Voith H55.6336.xx American Motors ATF +3 (MS7176-E) Bosch TE-ML 09 CAT TO-2 Esso LT 71141 JEEP ATF+3 NAG 1 (Chrysler, Jeep, Cherokee) Vickers M2950-S, I-286-S Aisin Transmissions requiring JWS 3309 MAN 339 Typ Z3, MAN 339 Typ Z12, MAN 339 Typ V2, Aisin Warner JWS 3309, JWS 2312D, CLIP, FF ATF, AW-F21 Jatco JF613E		

Doill Automatic Transmission Fluids Performance Levels

Doill ATF 320 Dexron III		Doill ATF 220 Dexron IID
Meets or exceeds the following performance levels:		
OEM GRUP	SPESIFICATION	SPESIFICATION
ALISON	C4 TES-389, TES 228	C4 TES-389, TES 228
ZF	ZF TE-ML 03D - 04D - 14A - 17 C	ZF TE-ML 03D - 04D - 11A - 14A
MERCEDES	MB 236.9 MB 236.5	MB 236.7
VOLVO	97341	97340
FORD	FORD MERCON M931220	ESR-M2C163-A2
OPEL / GM	DEXRON III	DEXRON IID
MAN	MAN 339 Typ Z1 MAN 339 Typ V1 MAN 339 Typ L1	MAN 339 Typ Z1 MAN 339 Typ V1
VOITH	Voith H55.6335.xx	VOITH 55.6335.32 (G607)
DEXRON	Dexron® IIIH	Dexron® IID
CATERPILLAR	Caterpillar TO-2	Caterpillar TO-2

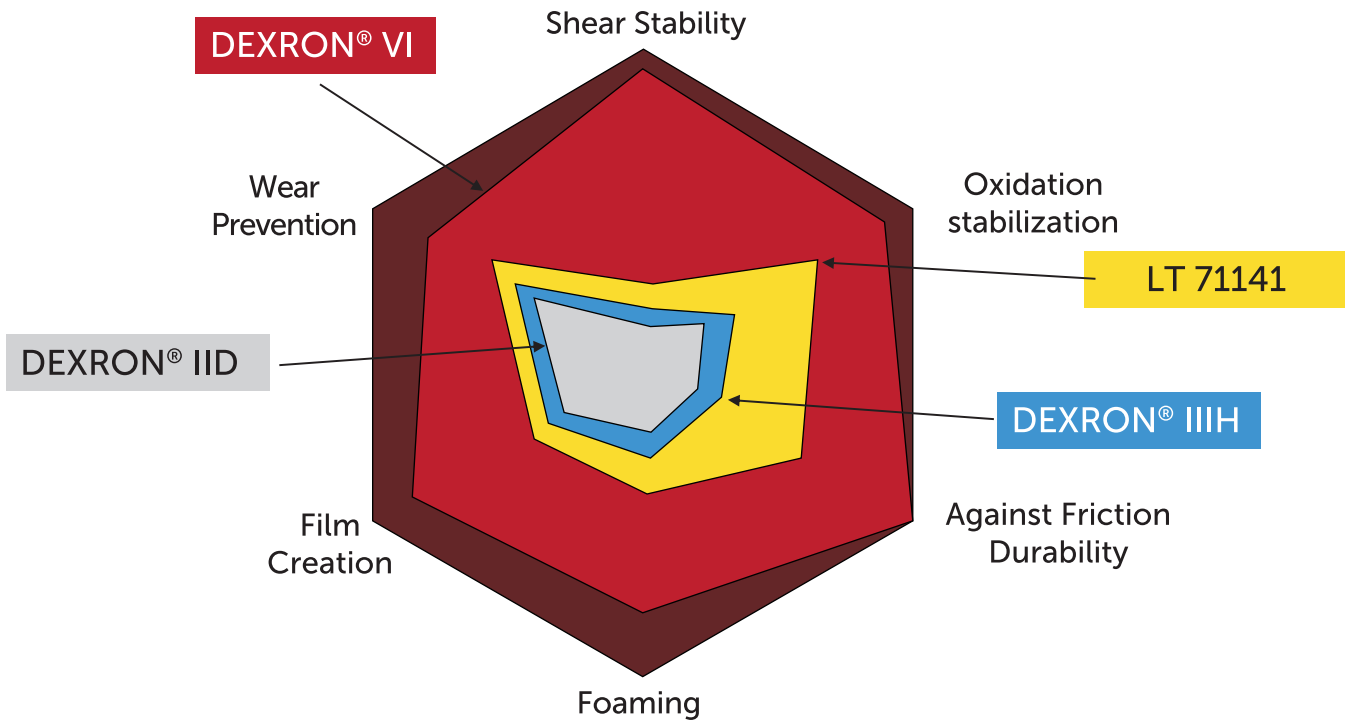
LIFE KEEPER 8 SPEED

Meets or exceeds the following performance levels:	
OEM GRUP	SPESIFICATION
BMW	83 22 2 289 720 - 83222152426 - ATF3+
CHRYSLER	68157995AA
FIAT	9.55550-AV5
JAGUAR	02JDE26444
LAND ROVER	LR023288
VW	G 060 162

ATF MB 9G 236.17

Meets or exceeds the following performance levels:	
OEM GRUP	SPESIFICATION
MERCEDES	MB 236.17 - MB 236.16
OTHERS	SN 725.0 9G-Tronic NAG3

Doill DEXRON VI Performance Levels



Use Of

Doill DEXTRON-VI ATF synthetic blend meets and protects the DEXTRON-VI specs needed by GM, Ford, Chrysler, Honda, Hyundai, Kia, Isuzu, Mercedes, BMW, Audi Mitsubishi, Nissan, Toyota, Opel vehicles. It is a high performance automatic transmission oil produced with a synthetic formulation that provides guaranteed protection to the needs of the customers. In addition, it is recommended to be used in old vehicles where all kinds of dextron products are used in order to provide better protection.

Performance

The advantages offered by Doill DEXTRON-VI ATF synthetic blend for Dextron/Mecron-style automatic transmission shifts:

- It reduces fuel consumption..
- Provides long-lasting oil usage and prevents oil deterioration at high operating temperatures.
- Provides oxidation and thermal stability.
- It is fully synthetic.
- It provides smooth gear shifts at low temperatures with its optimized friction feature.
- It provides protection against vibrations in gear shifts.
- Provides extra protection against greasing and residue formation.
- Provides enhanced filming protection to extend gear shift life.
- In cold conditions, it protects the fluid structure and protects the gearbox in the first start.
- It has been tested against all seasonal conditions.

Formulation

- Meets GM's need for DEXRON® VI. It is the main feature used in the USA since 2005.
- It meets Ford's need for MERCON® LV. Its production is recommended for all vehicles with Ford AT from 2000 and up to 2012. • JASO 1A-LV', which is required by Toyota and other Asian-manufactured vehicles meets the
- Doill DEXRON VI does not cover the following.
 - CVT
 - DCT
- Formulated for eight, seven and six-speed automatic transmissions.
- Can be used for many older, three, four and 5-speed automatic transmissions.
- Provides fuel economy with its low viscosity.

**MANUAL
GEAR OILS**



GEARPLUS
SYN 75W/85
FH MULTI



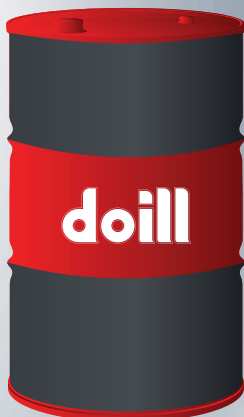
GEARPLUS
SYN 75W/80
VW300



GEARMAX
SYN 75W/90
HIGGS-B



GEARMAX
AXLE 80W/90
3000 XR



GEARPLUS
AXLE 90W
1000 X

GEARPLUS
AXLE 80W
2000 X

Doill GEARPRO Manuel Gear Oils



**Doill Gearplus
SYN VW300 75W-80**

**Doill Gearplus
SYN FH MULTI 75W-85**

**Doill Gearplus
SYN HIGGS-B 75W-90**

Meets or exceeds the following performance levels:

OEM GRUP	SPESIFICATION	SPESIFICATION	SPESIFICATION
SAE	J 306 / 75W-80	J 306 / 75W-85	J 306 / 75W-90
API	GL4 / GL4+ / GL5	GL4 / GL4+ / GL5	GL-4 / GL4+ / GL-5 / MT-1
ZF	ZF TE-ML 01E, 02E, 16P	Longlife-01	ZF-TE-ML 02B - 05B - 07A - 12B - 16F - 17B
MERCEDES	MB 235.41		MB 235.11
AUDI / VW	TL 52532	VW 500.00 / 502 00 / 505 00	VW 501.50
PEUGEOT CITROEN	PSA B71 2330	B71 2296	
FORD	WSD-M2C200-C		✓
MAN	MAN 341 Z5		MAN 3343 Type SL
MIL	MIL-L-2105D		MIL-L-2105D
FIAT		9.55550-MZ1	
HYUNDAI		✓	

**Doill Gearmax
AXLE 3000 XR 80W-90**

**Doill Gearmax
AXLE 2000 X 80W**

**Doill Gearplus
AXLE 1000 X 90W**

Meets or exceeds the following performance levels:

OEM GRUP	SPESIFICATION	SPESIFICATION	SPESIFICATION
SAE	80W-90	80W	90W
API	GL5 / GL4	GL4	GL1
ZF	ZF TE-ML 05A, 12E, 16B, 17B, 19B, 21A	ZF TE-ML 17A	
MERCEDES		MB 235.1	

Usage Areas

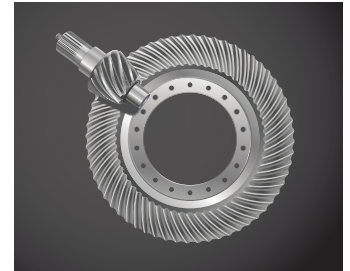
- Automotive transmission and differential systems
- Gear groups operating under medium and heavy loads
- Hypoid differentials
- Engine-independent motorcycle gear systems
- High speed/Shock loads, High speed/Low torque and Low Used in heavy working conditions such as speed/High torque other automotive transmission systems.



Manuel Transmisyon

GEARPRO SYN FH MULTI 75W/85

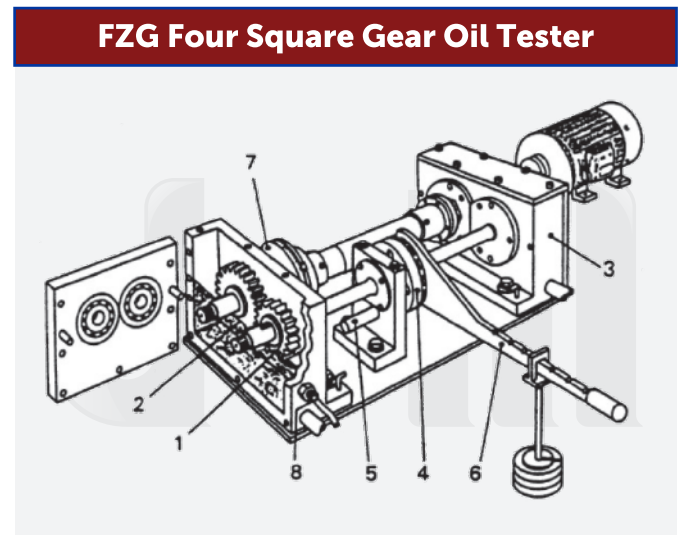
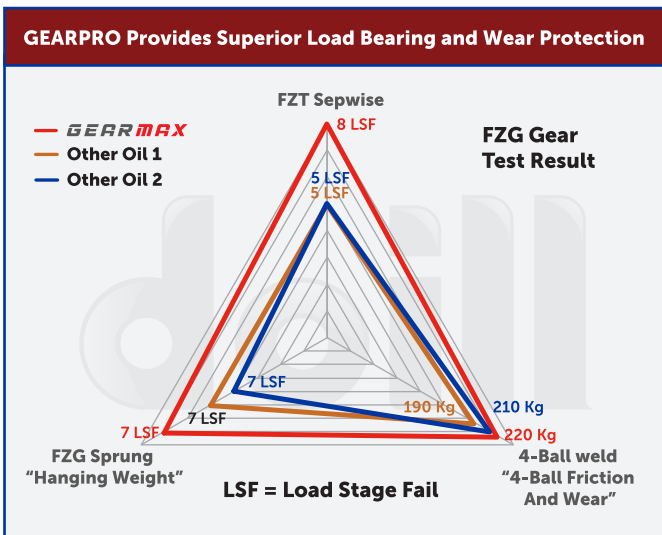
Specially made by doill for use in Hyundai and Fiat vehicles. are gear oils.



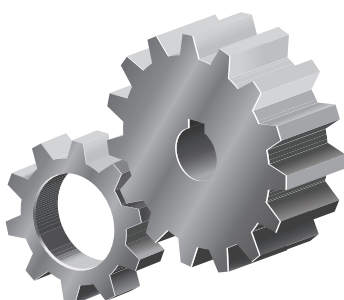
Bevel Gear

FZG GEAR OIL TEST

FZG gear oil test Several friction load tests performed at FZG are used to determine the extent to which gear lubricants help prevent friction. The thread looks into the lubrication gap. Friction occurs where gears engage, where roughness peaks sharply at these frictional contact temperatures ('flash temperatures'), friction occurs depending on load, peripheral speed and oil pan temperature. In this contact, the points, surfaces briefly fuse together and break apart again as the gears rotate, resulting in partial destruction of the surfaces. The friction load capacity of a lubricant depends on the base oils used, the additives and the resulting oil film.



1. Test Pawn
2. Test Wheel
3. Drive Gear Box
4. Rotary Coupling
5. Locking Pin
6. Load Handle With Weight
7. Torque Indicator
8. Temperature Sensor



**TRACTOR
OILS**



**MOTO...
...TRAC**
TRANSMISSION 422
10W/30



**MOTO...
...TRAC**
TRANSMISSION 426
10W/30

Doill MOTO-TRAC Tractor Transmission Oils



**MOTO TRAC
TRANSMISSION 426**

**MOTO TRAC
TRANSMISSION 426**

Meets or exceeds the following performance levels:

UTTO / TRANS SPEC		
API	GL-4	GL-4
ALLISON	C-4	
JHON DEERE	J20A, J20B, J20C, J20D	ALFA ROMEO All Models
FORD	M2C86B, C M2C134D	M2C134-D
J.I CASE/CASE Int:	MS-1204,MS-1205, MS-1206,MS-1207,MS-1209	MB 229.31/ 229.51/ 229.52
CHN	MAT 3525, MAT 3526	
MASSEY FERGUSON	M1135, M1141, M1143, M1145	M1110, M1127A, M1127B, M1129A, M1135
CATERPILLAR	Caterpillar T0-2	
VOLVO	WB101 (VCE 97303*)	
NEW HOLLAND	WB NWH 410B	
ZF	TE-ML 03E, 03F, 05E, 05F, 06K, 17E, 21F	
DEUTZ-ALLIS	272843, 257541, 246634	
WHITE FARM EQUIPMENT	Q-1826	
NEW HOLLAND (FIAT)	TE-ML 03E, 03F, 05E, 05F, 06K, 17E, 21F	
NEW HOLLAND (FORD)	FNHA-2-C-200A, FNHA-2-C-201, MAT 3225, 3525, 3526, ESNM2C41-B, ESN-M2C43, ESN-M2C48-A ve ESN-M2C48-B, ESN-M2C53-A ve ESN-M2C53-B, ESN-M2C92-A, ESN-M2C134-A, B, C, D	
KUBOTA	UDT	
HYDRAULIC SPECS		
SPERRY VICKERS / EATON	M2950S, I-286-S	M2950S, I-286-S
SAUER SUNSTRAND / DANFOSS	Hydrostatic Trans Fluid	Hydrostatic Trans Fluid
WET BRAKE SPECS		
SUITABLE FOR	WET BRAKES	WET BRAKES

ANTIFREEZE

CONCANTRE ANTIFREEZE



-55 °C READY ANTIFREEZES



-39 °C READY ANTIFREEZES



ANTIFREEZE - COOLANT FLUID

It is added to **antifreeze** materials for freezing and boiling climate. **Antifreeze** is used to cool in cold weather. The freezing point and boiling point depend on the amount of antifreeze in the water and its safety.

Chemical **antifreeze** products include propylene glycol, blood coagulation, methanol, ethanol and mono ethylene glycol (MEG).

In industry, a wide range of **antifreeze** products are used:

- For freezing of heat transfer fluids,
- To donate the engine and complete a certain connection,
- Cooling systems,
- Calerifer systems,
- In solar power plants,
- And it is used in many other sectors.

Mono Ethylene Glycol Based Antifreezes have three basic functions in the vehicle.

1-) Its function as a coolant prevents excessive temperature rise in the engine and provides protection against overheating. In other words, it provides protection by keeping the engine running at the proper temperature.

2-) It prevents the engine coolant from freezing in cold weather conditions

3-) It protects the engine against deterioration and corrosion by wrapping around the parts it operates in.

About 60% of engine failures and problems can be related to the cooling system. **Antifreeze** products are essential for the proper functioning of engines. During the year, the coolant, water and **antifreeze** ratio in the vehicle should be checked and if there is a decrease, regular additions should be made.

Features to look for in a good antifreeze:

- By lowering the freezing point, it should prevent the engine from freezing in cold conditions.
- Metal parts must be protected against corrosion.
- It should set the motor even against the hardest water.
- It should be compatible with other plastic and elastomer materials used in the engine.
- It should not foam.
- It should not have a very intense smell.

The most common coolant is water. Water has high heat resistance, is cost-effective and suitable for heat transfer. In cases where Syun alone is not sufficient as a coolant, either a different chemical substance is used or another chemical substance is added to the water to ensure its use. One of the most popular chemical **antifreezes** is Mono Ethylene Glycol(MEG). **Antifreeze** must be mixed with water in order to be used as a coolant in the vehicle under suitable conditions.

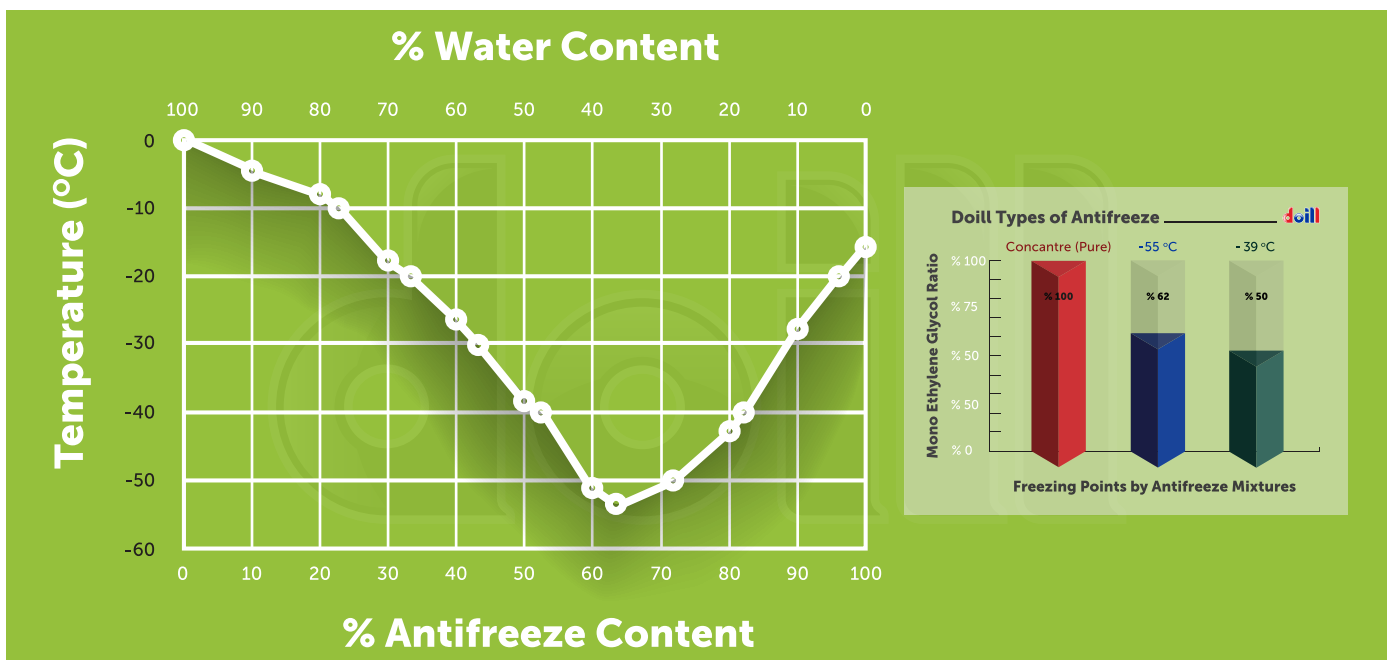
Besides, Propylene glycol is also used as antifreeze and is less toxic than MEG. However, its freezing point is weak and industrially uneconomic compared to MEG. It is mostly used in food applications.

Antifreezes used in vehicles:

- Conventional **antifreeze**, blue - green - yellow G11
- Organic **antifreeze** is divided into red G12.

Attention !

- Glycerin-containing antifreezes display incorrectly the measuring devices set for Meg (Monot Ethylene Glycol) and confuse the use.
- Antifreezes containing glycerin are not suitable for the vehicle.
- Inorganic and organic antifreezes, whose prices are very close or the same, should be avoided, because antifreezes produced without using organic additive technology and only added color can damage your vehicle.
- The freezing point of concentrated (pure) antifreeze produced with Mono Ethylene Glycol is between -14 and -18 OC, and the maximum point it will reach when mixed with water is around -55 degrees and cannot be lower. Products with a rating of -72 OC and around on the packaging are not correct products and should be avoided.
- Strong-smelling antifreezes may contain conversion or inappropriate chemicals.
- A radiator that has been constantly running with water may be rusty. If the radiator is replaced with antifreeze liquid after a long time, the antifreeze may dissolve the rust that has already formed and cause holes in the radiator. Therefore, the use of vehicles without antifreeze in the radiator should be avoided. A good antifreeze dissolves dirt and rust.



Doill's Recommended Use

- **Organic** Antifreeze

Maximum Usage

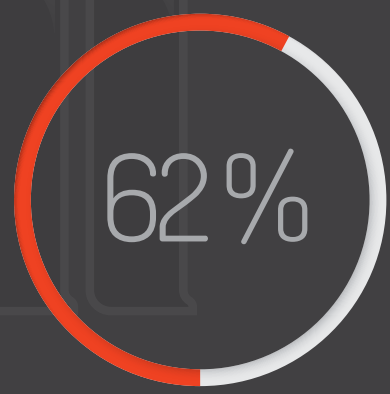
240,000 **5 Years**
Kilo Meter

- **Conventional** Antifreeze

Maximum Usage

60,000 **2 Years**
Kilo Meter

Maximum Performance Concentrated (Pure) Antifreeze - Water Ratio



Doill Antifreeze Freezing Points



CONCENTRATED (PURE) ANTIFREZES



ANTIFREEZE ORGANIC LONG LIFE
concentre
COOLANT G12

ANTIFREEZE GREEN FLUORIZED
concentre
COOLANT G11

ANTIFREEZE BLUE LIFE
concentre
COOLANT G11

Performance values of mixing with water

MIXING RATIOS	DONMA DERECESİ °C	FREEZING DEGREE °C	FREEZING DEGREE °C
PURE STATE	- 14 °C	- 14 °C	- 14 °C
MIXTURE WITH 40% WATER	- 52.6 °C	- 52.6 °C	- 52.6 °C
MIXTURE WITH 50% WATER	- 36 °C	- 36 °C	- 36 °C
MIXTURE WITH 60% WATER	- 24 °C	- 24 °C	- 24 °C



READY-MIX ANTIFREZES



ANTIFREEZE ORGANIC LONG LIFE
-55°C
COOLANT G12

ANTIFREEZE BLUE LIFE
-35°C
COOLANT G11

ANTIFREEZE ORGANIC LONG LIFE
-39°C
COOLANT G12

ANTIFREEZE GREEN LIFE
-39°C
COOLANT G11

Performance values of mixing with water

MIXING RATIOS	DONMA DERECESİ °C	DONMA DERECESİ °C	DONMA DERECESİ °C	DONMA DERECESİ °C
PURE STATE	- 55 °C	- 55 °C	- 36 °C	- 36 °C
MIXTURE WITH 50% WATER	- 22 °C	- 22 °C	- 15 °C	- 15 °C

BRAKE FLUID



Doill DOT 3 - DOT 4 Brake Fluid Series

Doill DOT 4: It is a synthetic based high quality oil.

It is used in hydraulic brake systems of motor vehicles.

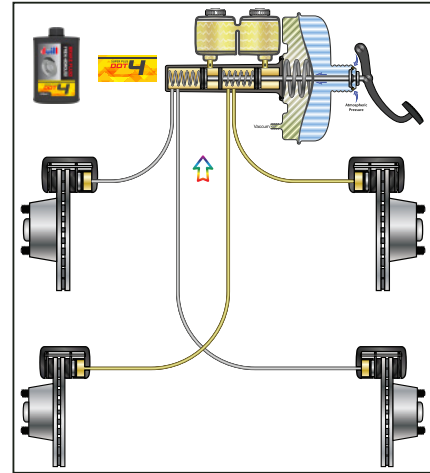
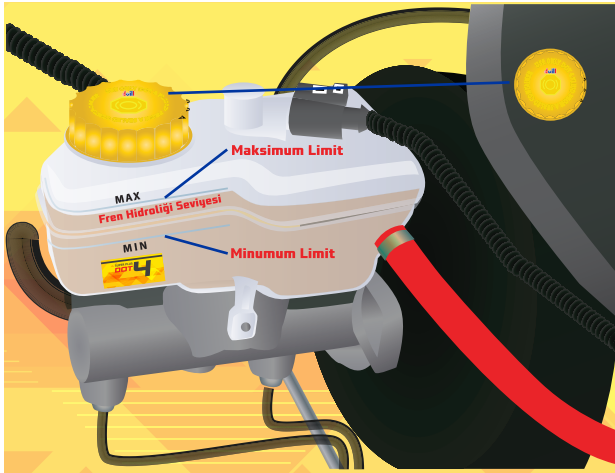
Benefits: High temperature resistant. It provides brake safety at 245 oC (473 oF). Compatible with gasket elements. It prevents wear, rust and corrosion. It is long lasting.

Properties: Its boiling point is very high, its freezing point is very low. FMVSS No.116 meets DOT 4, SAE J 1703 specifications.

Doill DOT 3: It is a synthetic based high quality oil. It is used in hydraulic brake systems of motor vehicles.

Benefits: High temperature resistant. It provides brake safety at 205 oC (370 oF). Compatible with gasket elements. It prevents wear, rust and corrosion. It is long lasting.

Properties: Its boiling point is very high, its freezing point is very low. Meets FMVSS No.116 DOT 3, SAE J 1703 specifications.

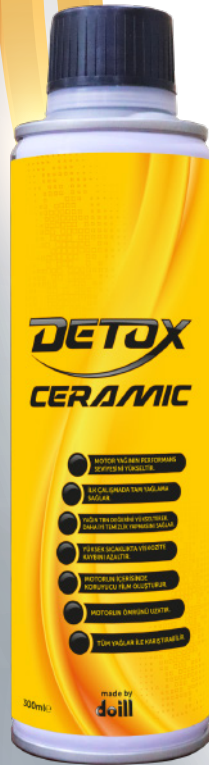


**Doill Super Plus
DOT 4**

**Doill Super Plus
DOT 3**

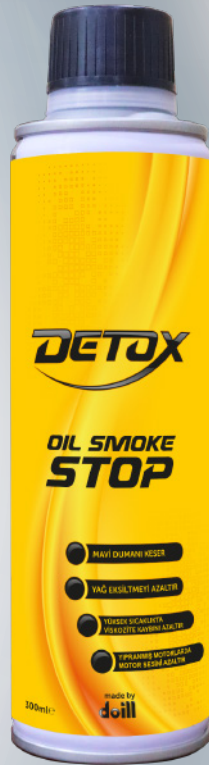
Performance values of mixing with water		
	SPESIFICATION	SPESIFICATION
FMVSS	FMVSS 116 DOT 4	FMVSS 116 DOT 3
ISO	ISO 4925 Class 4	ISO 4925 Class 3
JASO	JASO JIS K2233 Class 4	JASO JIS K2233 Class 3
SAE	SAE J1703	SAE J1703
SAE	SAE J1704	AS 1960.1-2005 Grade 1
AS	AS 1960.1-2005 Grade 2	
JIS JAPAN	JIS JAPAN K2233	

OIL ADDITIVE



DETOX

CERAMIC



DETOX

OIL SMOKE STOP

Detox Performance Levels

DETOX

CERAMIC



MOTOR YAĞININ PERFORMANS SEVİYESİNİ YÜKSELTİR.

İLK ÇALIŞMADA TAM YAĞLAMA SAĞLAR.

YAĞIN TBN DEĞERİNİ YÜKSELTEREK, DAHA İYİ TEMİZLİK YAPMASINI SAĞLAR.

YÜKSEK SICAKLIKTA VİSKOZİTE KAYBINI AZALTIR.

MOTORUN İÇERİSİNDE KORUYUCU FİLM OLUŞTURUR.

MOTORUN ÖMRÜNÜ UZATIR.

TÜM YAĞLAR İLE KARIŞTIRILIR.

DETOX

OIL SMOKE STOP



MAVİ DUMANI KESER

YAĞ EKİLTMEYİ AZALTIR

YÜKSEK SICAKLIKTA VİSKOZİTE KAYBINI AZALTIR

YIPRANMIŞ MOTORLARDA MOTOR SESİNİ AZALTIR

HYDROULIC OIL

**HYDRO
PRO 32**

**HYDRO
PRO 37**

**HYDRO
PRO 46**

**HYDRO
PRO 68**

**HYDRO
PRO 100**



Doill HYDROPRO Performance Levels



Doill HYDROPRO

ISO VG 32 – ISO VG 46 – ISO VG 68 – ISO VG 100

Doill HYDROPRO series Hydraulic System Oil is a unique product of Doill technology, containing low zinc content, anti-wear, highly refined base oils.

Doill HYDROPRO has been specially formulated to provide excellent anti-wear and thermal stability performance using the latest low-zinc additive technology. Thanks to the careful blending of advanced additives with high quality base oils, Doill HYDROPRO has an excellent hydrolytic and oxidative stability while minimizing the tendency to form sludge and deposits. Doill HYDROPRO also protects the components containing iron and yellow metal in the hydraulic system against corrosion. Doill HYDROPRO can be used safely in most industrial hydraulic systems that require anti-wear protection and DIN HLP quality oil, as well as in construction machinery and equipment, taking into account the manufacturer's recommendation. The Doill HYDROPRO series is compatible with elastomer materials commonly used in static and dynamic seals, such as nitrile, silicone and fluoropolymer.

	Doill HYDROPRO HD 100	Doill HYDROPRO HD 68	Doill HYDROPRO HD 46	Doill HYDROPRO HD 32
Product Features				
ISO VG	100	68	46	32
Kinematic Viscosity @ 40 °C ASTM D 445	100	68	46	32
Kinematic Viscosity @ 100 °C ASTM D 445	11.1	8.7	6.8	5.5
Density @ 15 °C	0,889	0,885	0,879	0,874
Viscosity Index , ASTM D 2270	95	100	100	100
Flash Point , °C ASTM D 92	230	220	210	195
Pour Point , °C ASTM D 97	-30	-33	-33	-33

**OTHER
INDUSTRIAL OILS**

SLIDEWAY SERIES

Doill CUT

REFRIGERATION OIL

DoillGEAR

GREASES

PLAYWOOD MOLD OIL

INDUSTRIAL SOAP

COMPRESSOR OIL

HEAT TRANSFER OIL

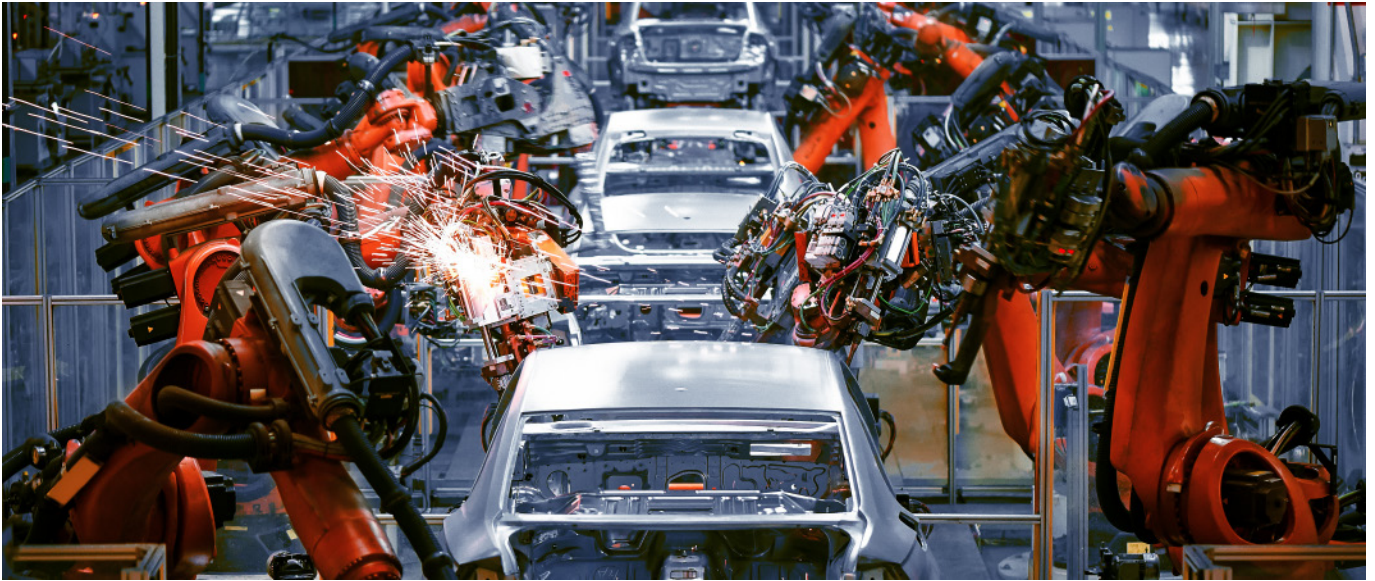
GENERAL PURPOSE OILS



Doill SLIDEWAY SERIES

Doill SLIDEWAY Series are high quality slideway oils developed to meet the requirements of modern machines for processing precision, easy separation with coolants and equipment protection.

Doill SLIDEWAY series is formulated with high quality base oils and controlled friction properties, excellent aqueous cutting fluid compatibility, balanced performance of an advanced additive system that provides protection of workpieces and equipment against rust. The proprietary additive package provides outstanding frictional properties that reduce grip-slip and vibration with a wide variety of slide materials including steel/steel and polymer/steel. This allows for smooth and vibration-free slide movements, which extends the cutting tool life and improves the surface treatment quality, allowing the machine to maintain productivity and precision for a long time. The Doill SLIDEWAY series are high quality slide oils developed to meet the requirements of modern machines for processing precision, easy separation with coolants and equipment protection.



Key Performance Benefits

- Excellent frictional characteristics as demonstrated in the MAG stick-slip test and Schmidt inclined tribotester
- Compatibility with a range of cutting fluids as demonstrated in SKC compatibility testing
- MAG P-47 and P-50 approval
- Excellent antiwear and EP performance
- Good demulse and filtration performance
- Strong thermal stability and anticorrosion properties
- Brugger performance of > 30N/mm²



BOR CUTTING OIL - DOILLCUT

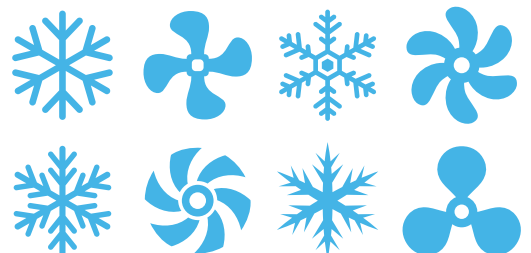
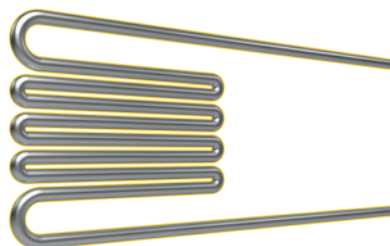
Doillcut is a trademark for metal work venues that can blend in with the events exhibited by the Doill scenes. Formulated with innovative base vehicles, additives and emulsifiers, the Doillcut series is material-free and performs well in a wide range of metal work. The products are designed to function hard and soft, providing potential and long-range protection for the machine and center. machine performance with little protection and durability Doill products offer long life for productivity. There is no proximity to humans and the environment. Regarding these products, it is delivered and mixed with water intended for use.



Air Condition Oil - Doill Dekovat

Doill Dekovat air conditioning system oil 46 It is a polyalkylene glycol based, fully synthetic air conditioning system oil containing fluorescent radiation. It is well compatible and miscible with R134a. It complies with the demands of leading air conditioning compressor manufacturers. Complies with ISO VG class 46 in accordance with DIN 51519.

Developed for air conditioning systems with R134a gas. It is manufactured to lubricate, seal and cool sliding and rotating parts in the refrigerant circuit. Vehicle or compressor manufacturers' instructions should be observed before use.



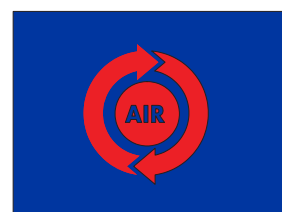
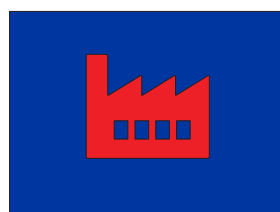
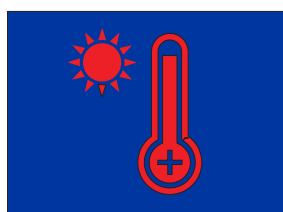
INDUSTRIAL GER OIL

oill Gearpro Series oils are designed to prevent wear on the gears from the first starting level. Microscopic abrasions, defined as pitting on their outer surfaces, can cause significant external damage. Doill Gearpro Series oils outperform industry demands for wear protection of bearings. As a matter of fact, Doill Gearpro Series oils showed 15 times more wear protection than desired in the FAG FE8 industrial standard test. The balanced formulation of Doill Gearpro Series provides maximum wear and corrosion protection, and is also compatible with sealing elements commonly used in gearboxes. Doill Gearpro Series prevents oil leaks and ingress of contamination by maintaining the harmony of gearbox and sealing elements. Increases equipment reliability and efficiency by protecting gears, bearings and seals.



COMPRESSOR OIL

The Compressor Oil 4000 Series consists of premium performance, ashless air compressor oils designed to meet the stringent requirements of leading compressor manufacturers. It is formulated with high quality mineral base oils and a high performance additive system developed to provide superior equipment protection and reliability for compressors operated in mild to harsh conditions. These oils provide excellent protection against wear and reduce maintenance costs by reducing equipment problems and minimizing deposit build-up and carryover. Thanks to their high FZG Ratings, Compressor Oil 4000 Series are excellent oils for compressor systems with gears and bearings, making them excellent choices as crankcase and cylinder oils.



GREASE - PAGUS SERIES

Produced from calcium soaps, it provides fast and effective lubrication in various application areas where the operating temperature is not high. It has a high pumping ability. It is used especially in low speed plain bearings operating under normal load, in medium speed and loaded conditions, where the operating temperature does not exceed 70°C.



PLAYWOOD - MOLD RELEASE OIL

Mineral oil-based, ready-to-use mold release agent that allows easy separation of Playwood molds from fresh concrete and provides a smooth and spotless surface to the concrete.

INDUSTRIAL SOAP

Lymon Hand Wash Cream

- It cleans the hard dirt on the hands deeply thanks to its powerful formula and the particles in it.
- Refreshes with lemon scent.
- It saves time, water and product.



GENERAL PURPOSE OILS

Formulated using high quality paraffinic base oils, it prevents wear, rust and corrosion by forming an excellent oil film in the lubrication of moving metal equipment, and prolongs the life of the parts.

HEAT TRANSFER OIL

Produced with well-refined paraffinic base oils. It does not have a corrosive effect on steel and copper, it has very good thermal stability and oxidation resistance. It is used safely up to an operating temperature of 315°C in closed systems and 200°C in open systems. It has high specific heat and thermal conductivity. Evaporation is low, low temperature operation is good.

Features and Benefits

- Provides the opportunity to work at very high temperatures thanks to its high thermal stability.
- High resistance to oxidation provides long service life
- Although it has a long life, it maintains its heat transfer feature and ensures efficiency from the system.
- It is resistant to deterioration at high temperatures and does not form deposits.
- Protects the system very well against corrosion.
- Provides ease of operation at low temperatures





- ***Motor Oils***
- ***Transmission Oils***
- ***Automatic Transmission Oils***
- ***Oils Additive***
- ***Industrial Oils***
- ***Grease Oils***
- ***Brake Fluids***



***Enjoy Your Ride With Doill Products
As The Doill Family,
Your Comfort And Happiness
Is Our Happiness.***

About US

Doill is a petrochemical company.

Doill helps to meet the mineral oil needs of the developing world within the framework of environmental and social responsibility.

It appeared on the world stage in the 1960s with the brand name DOĞAN. After 2000, it continued to produce with the doill brand.

The Doill family is a Turkish company that has gained decades of experience, produces in the fields of mineral oil, grease, antifreeze, brake fluid and special products, has taken its place in the race with international companies by adapting itself to the developing technology, and has made breakthroughs in the field of R&D and laboratory.

Over the years, it has established relations with OEM manufacturers, followed their product specs, and enriched the principle of meeting official approval performance levels with R & D studies and applications, and succeeded in producing products with product quality that are even higher than the demand of the market. With the principle of keeping the price / performance ratio high, it has become the most assertive brand in the market.

The Doill family has produced ultra-quality products that will compete in market conditions with superior base oils and new technology additives. Today, it has taken its place assertively in the sector with its wide range of products. In the product production process, it is at world quality standards with its high-capacity production facility, R&D and quality control laboratory, product filling and packaging untouched throughout the production process.

For more than half a century, the Doill family has built solid ground and expertise, now providing new opportunities for the rapidly expanding lubricants market.

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Lubricant Is Our Business

Contact Us: +90 850 302 41 40

www.doill.com.tr

e-mail: info@doill.com.tr

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Usage Recommendations

- Organic antifreezes can be mixed with each other, inorganic antifreezes can be mixed with each other. However, avoid mixing inorganic and organic antifreezes.
- Rust will form during use if the radiator coolant contains less than 50% antifreeze or contains only water, and in any case if the water used contains heavy metals (non-distilled water). When the next antifreeze maintenance is performed, the added antifreeze dissolves the rusty structures formed in the radiator and opens holes. Therefore, it is necessary not to reduce the antifreeze ratio below 50% during all four seasons.
- The freezing point of concentrated (pure) antifreezes is -14 oC to -18 oC, as it is mixed with water, the freezing point decreases and after reaching the peak point, it rises towards 0 oC as you continue to add water. The freezing degrees after mixing are written on the product packaging. Expressions such as -70 oC, -74 oC on the product packaging, expressing that it is concentrated, do not reflect the truth. Antifreezes made with Mono Ethylene Glycol, when mixed with water in the right ratio, will reach the maximum freezing point between -50 oC and -55 oC.
- In vehicles with damaged EGR system, exhaust gas (soot and acidic gases) comes from the combustion chamber to the pistons continuously, causing the oil viscosity to increase rapidly.
- Dot 3 from brake fluids; Every 30,000 Km, Dot 4; It should be changed every 45,000 km.
- Automatic transmission oils should be changed every 35,000 km for maximum performance and every 60,000 km for economic performance.
If automatic transmission maintenance is not performed at 60,000 km, a malfunction will occur in the next oil service.
- Automatic transmission oils should be changed every 35,000 km for maximum performance and every 60,000 km for economic performance.
If automatic transmission maintenance is not performed at 60,000 km, a malfunction will occur in the next oil service.
- The viscosity class of the engine oil to be used can be changed according to climatic conditions, engine modification and engine wear.
- The most important factor in engine oil maintenance is the oil filter quality. No matter how good the engine oil is, if the oil filter is bad, lubrication will not occur. If the oil filter quality is good, even if the engine oil quality is bad, the vehicle will be lubricated and the engine will not be damaged.
- In case of an emergency, such as staying on the road due to low engine oil level, you can add different viscosity class oils from the engine cover, and you should have the engine oil serviced as soon as possible after the journey is over.
- General usage characteristics of engine oils in healthy vehicles:
 - 3000 Km life for mono grade oils such as 40W, 50W.
 - 5000 Km life for mineral multi grade oils such as 20W/50, 15W/40
 - 10,000 Km life for semi-synthetic oils such as 10W/40, 10W/30
 - 15,000 Km life for fully synthetic oils such as 5W/30, 5W/40
 - 20,000 Km life for fully synthetic oils such as 0W/30, 0W/40
 - The service life of heavy-duty group engine oils can vary between 20,000 Km and 60,000 Km.Engine oil lifetimes may vary depending on synthetic oil quality, additive technology, fuel quality and climatic conditions.
The engine oils of the lowest quality can be used up to 3000 km in a healthy engine.
- It is recommended to use Doill Speed Racer 10W/60 engine oil in the first oil filling after engine overhaul.
- In vehicles requiring engine overhaul, maximum overhauling will result in faulty results. For this reason, engine overhaul must be complete.
- Grease maintenance of internal flow is required every 30,000 km.

CAR LIQUID

WHICH **FLUID**
NEED TO BE
CHANGED ?


STEERING OIL




ANTIFREEZE




MOTOR OIL




BRAKE FLUID




AUTOMATIC TRANSMISSION OIL




**LIKE ENGINE OILS
GEAR OILS ALSO
ORGANISED
MUST BE REPLACED**




**OIL WARNING LAMP
NEGLECT
HIGH ENGINE
CAN CAUSE DAMAGE**




**TOO MUCH OIL IN THE ENGINE
MUCH LESS OIL
CAN BE HARMFUL**





MOTOR OIL
www.doill.com.tr



MOTOR OIL
www.doill.com.tr

**...SPEED
RACER**
MASTER **EXTREME**



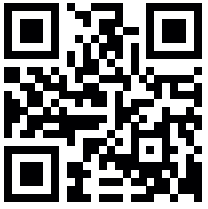
doill **...SPEED** **RS100** **10W/60**
MOTOR OIL **RACER** 



DO NOT CALL YOUR ENGINE DOCTOR ANYWHERE ELSE!

Titanium Gold Alloy Tech
FULLY-SYNTHETIC

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www.doill.com.tr
You can visit the website



doill

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