



**PULZAR**



# PULZAR LUBRICANTS PRODUCT GUIDE

**LONG LASTING PROTECTION**

Thai Petroleum & Trading Co., Ltd.

9-10<sup>th</sup> Floor, TP&T Tower, 1 Soi Vibhavadee-Rangsit 19 Chatuchak, Bangkok 10900

Tel. (662) 936-1801-30 / Fax: (662) 936-1839, 936-1860



[www.pulzaroil.com](http://www.pulzaroil.com)  
ISO 9001 Certification



WHAT IS PULZAR?

# PULZAR LONG LASTING PROTECTION

PULZAR lubricants are manufactured from the purest and highest-quality lubrication base oils blended with advanced additives from top international suppliers. Each product undergoes a stringent quality assurance process to verify that every drop of PULZAR lubricants consistently meets or surpasses World Class Quality Standards.

PULZAR lubricants provide long lasting protection, extending the service life of your vehicle as well as the intervals between oil changes.



# WHAT GOES INTO a GOOD MOTOR OIL?



- + **High Lubricity Properties** help the lubricant adhere to metal parts, providing better viscosity and extending the life of piston rings.
- + **Oxidation-Inhibiting Additives** maintain oxidation stability and viscosity at high temperatures.
- + **Anti-Wear Additives** form a protective coating that protects the engine against high-temperature and extreme-load conditions.
- + **Detergent & Dispersant Additives** keep engines clean by preventing contaminants like sludge and acids from bonding on metal surfaces.
- + **Corrosion & Rust Inhibitors** protect steel surface from rust and corrosion by forming a protective film on the surface to prevent the diffusion of moisture.

Most importantly, a good motor oil must retain all of these properties throughout its lifespan, not just in the first few weeks of use.

DIESEL

# POWER to PASS



## DIESEL ENGINE OILS



### PULZAR LONG LIFE ULTRA

SAE 5W-30

API CJ-4

Ultra High Performance Fully Synthetic Diesel Engine Oil for High Performance European and Japanese Trucks

Formulated with top quality synthetic base oils and special ULTRA ZDP additives to provide ultimate protection for high performance low emissions diesel engines

Provides exceptional high thermal resistance and minimizes degradation under severe conditions at high operating temperature

Meets Euro IV, V, VI emission requirements, engines with Diesel Particulate Filter (DPF), Selective Catalytic Reduction (SCR) and Exhaust Gas Recirculation (EGR)

Meets API Service Classification of API CJ-4

Meets or Exceeds API CJ-4/SN, ACEA E6/E7/E9-10 Issue 2, DAIMLER MB-228.51, 228.31, Volvo VDS-4, VDS-3, CNG, Renault Truck RXD, RLD-3, RLD-2, RGD, Mack EO-O-O PP, EO-N PP, EO-M PLUS, MAN M3477/3271-1, Cummins CES 20081, CAT ECF-3, MTU Type 3.1, Deutz DQC IV-10LA, Detroit Diesel DDC 93K218, JASO DH-2

Available Packsize :

6 litres



### PULZAR LONG LIFE XLD

SAE 15W-40

API CI-4/SL

Exceptional Quality Semi-Synthetic Diesel Motor Oil for High Performance Modern European and Japanese Trucks

Formulated with selected synthetic base oils and special additives to maximize the Extended Long Drain intervals

Provides full protective shield against all forms of wear with Modified Release Technology (MR<sub>T</sub>)

Maintains clean-engine performance by removing varnish and sludge from the combustion chamber and pistons

Meets Oil Drain Intervals beyond maximum levels recommended for Modern European type engines

Meets API Service Classification of API CI-4/SL

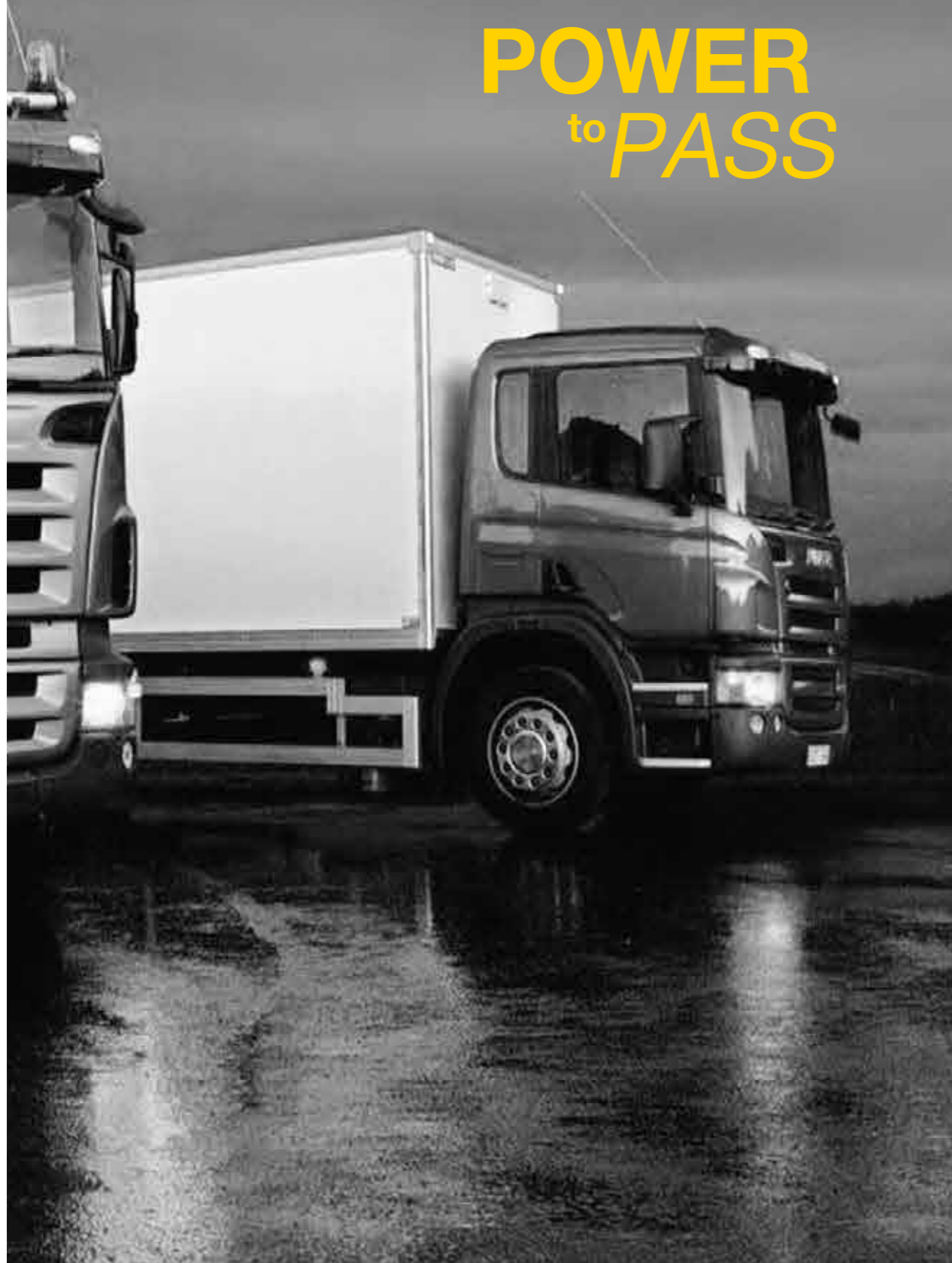
Meets or Exceeds ACEA E7-12, MB 228.3, MAN M3275, VOLVO VDS-3, MTU TYPE 2, MACK EO-N,EO-M Plus, Renault Truck RLD-2, CUMMINS CES 20076/20077/20078, CAT ECF-2, Global DHD-1, Deutz III-10, Detroit Diesel 93K215 and Alison TES439

Available Packsize :

1 litre, 6 litres, 18 litres

**DIESEL**

**POWER**  
to *PASS*



**PULZAR LONG LIFE GOLD**

SAE 20W-50, SAE 15W-40  
API CI-4/SL

An Exceptional Quality Motor Oil for High-Performance Diesel Engines

- Recommended for heavy-duty diesel trucks, trailers, buses, multipurpose vehicles, pick-ups and 4-wheel drive vehicles
- Increases acceleration under all conditions
- Provides a protective shield against all forms of wear with Modified Release Technology (MR<sub>7</sub>)
- Provides high thermal resistance and lubricates the engine, even under extreme conditions
- Increases driving performance of high-mileage engines
- Extends drain intervals beyond API CI-4/SL specifications
- Meets API Service Classification of API CI-4/SL
- SAE 15W-40 exceeds API CI-4, CF, SL, ACEA E7-12, Daimler MB 228.3, MAN M3275, MTU Type 2, Volvo VDS-3, Mack EO-N, EO-M Plus, Renault Trucks RLD-2, Cummins CES 20076/77/78, Caterpillar ECF-2, Global DHD-1, Deutz DQC III-10 and Detroit Diesel 93K215
- SAE 20W-50 exceeds API CI-4, CF, SL, ACEA E7-12, Daimler MB 228.3, MAN M3275, Caterpillar ECF-1-a and Global DHD-1

Available Packsize :  
1 litre, 6 litres, 18 litres, 200 litres



**PULZAR LONG LIFE Z-7**

SAE 20W-50  
API CF-4/SG

A Universal Motor Oil for Diesel Engines

- Recommended for trucks, buses, vans and pick-ups
- Boosts engine power
- Provides long-lasting protection throughout engine life with Modified Release Technology (MR<sub>7</sub>)
- Provides engine protection for high-mileage engines
- Meets API Service Classification API CF-4/SG specifications

Available Packsize :  
1 litre, 5 litres, 18 litres, 200 litres

**PULZAR LONG LIFE SYN-BLEND FOR NGV**

SAE 15W-40 CUMMINS CES 20074

Premium Semi-Synthetic Motor Oil for Natural Gas Vehicles

- Suitable for natural-gas vehicles such as trucks, trailers, buses and industrial engines
- Helps protect engines from all forms of wear
- Maintains clean-engine performance by removing varnish and sludge from the combustion chamber and pistons
- Minimizes sludge formation and extends engine life
- Meets OEM's requirements of CUMMINS CES 20074



Available Packsize :  
18 litres, 200 litres

DIESEL

# SILENT *and* STRONG



**PULZAR HYPERMAX  
FULLY SYNTHETIC**  
SAE 5W-40  
ACEA C3-10

Premium Grade 100% Fully Synthetic Motor Oil designed for High Performance Turbo Diesel Engines in Modern SUV, Off-Road, Pick-up and latest model of European and Japanese Diesel Passenger Cars

Formulated specially for Hyper Speed and Maximum Acceleration driving style

Ultimate protection on engine parts and turbocharger with stronger film, lower friction, higher shear stability oil

Delivers excellent lubricity to minimize vibration and engine noise for more powerful, smoother and quieter running.

Prevents soot deposits, excel oxidation stability, extend oil drain interval

Suitable for use in EURO IV, V engines that meet emission requirements and engines with Diesel Particulate Filter (DPF)

Meets the European Automobile Manufacturers' Association of ACEA C3-10

Meets or Exceeds ACEA C3-16, API SN, DAIMLER MB 229.51, GM DEXOS 2, VOLKSWAGEN VW 50500/50501, BMW LONGLIFE-04 and PORSCHE A40

Available Packsize :  
6 litres

**PULZAR HYPERMAX FULLY SYNTHETIC SAE 5W-30**  
ACEA A5/B5-10

Premium Grade 100% Fully Synthetic Motor Oil designed for la test models of FORD Diesel and Gasoline Engines meeting with FORD WSS M2C 913-D specification

Formulated specially for Hyper Speed and Maximum Acceleration driving style

Ultimate protection on engine parts and turbocharger with stronger film, lower friction, higher shear stability oil

Delivers excellent lubricity to minimize vibration and engine noise for more powerful, smoother and quieter running

Prevents soot deposits, excel oxidation stability, extend oil drain interval

Suitable for use in EURO IV, V engines that meet emission requirements and engines with Diesel Particulate Filter (DPF)

Meets the European Automobile Manufacturers' Association of ACEA A5/B5-10

Meets or Exceeds ACEA A5/B5-10 and FORD WSS M2C 913-D

Available Packsize :  
1 litre, 6 litres

**DIESEL**

# SILENT *and* STRONG



**PULZAR HYPERMAX  
SPORT DIESEL**  
SAE 10W-40  
API CI-4/SL

Premium Semi-Synthetic Motor Oil for High-Performance Turbo Diesel Commonrail Direct Injection Engines

- Specially formulated for high-performance turbo diesel engines equipped with commonrail systems in SUVs, pick-ups, off-road vehicles, MPVs, PPVs and diesel passenger cars
- Formulated for hyper-speed and maximum acceleration
- Minimizes vibration and engine noise for a more powerful, smoother and quieter drive
- Protects engine parts and turbo-charger with stronger film, lower friction, and higher shear stability oil.
- Prevents soot deposits, enhances oxidation stability, and extends oil drain intervals
- Meets API Service Classification of API CI-4/SL
- Meets or exceeds API CI-4/CH-4/CG-4/CF-4/CF/SL, ACEA E7-12(2012), A3/B4-12 (2012), DAIMLER MB-Approval 228.3/229.1, Volvo VDS-3, Renault Truck RLD-2, Mack EO-N/EO-M PLUS, MAN M 3275, Cummins CES 20076/20077/20078, CAT ECF-2/ECF-1-a, MTU Type 2, Deutz DQC III-10, Detroit Diesel DDC 93K215, GLOBAL DHD-1

Available Packsize :  
1 litre, 6 litres



**PULZAR HYPERMAX  
COMMONRAIL**  
SAE 10W-30  
API CI-4/SL

Premium Semi-Synthetic Motor Oil for High-Performance Turbo Diesel Commonrail Direct Injection Engines

- Specially formulated for high-performance turbo diesel engines equipped with commonrail systems in SUVs, pick-ups, off-road vehicles, MPVs, PPVs and diesel passenger cars
- Improves fuel economy
- Excellent evaporative loss properties
- Protects engine parts with stronger film, lower friction, and higher shear stability oil
- Prevents soot deposits, enhances oxidation stability, and extends oil drain intervals
- Meets API Service Classification of API CI-4/SL
- Meets or Exceeds API CI-4/CH-4/CG-4/CF-4 /CF/SL, ACEA E7-12(2012), A3/B4-12 (2012), DAIMLER MB-Approval 228.3/229.1, Volvo VDS-3, Renault Truck RLD-2, Mack EO-N/EO-M PLUS, MAN M 3275, Cummins CES 20076/20077/20078, CAT ECF-2/ECF-1-a, MTU Type 2, Deutz DQC III-10, Detroit Diesel DDC 93K215, GLOBAL DHD-1

Available Packsize :  
1 litre, 6 litres

**PULZAR SUPER HD**  
SAE 30 / SAE 40 / SAE 50  
API CD/SF

Motor Oil for Diesel and Gasoline Engines

- Single-grade motor oil for diesel and gasoline engines
- Suitable for commercial vehicles and light-duty trucks with diesel or gasoline engines
- High thermal resistance
- Lubricity-enhancing oil film extends engine life
- Meets API Service Classification of API CD/SF
- Meets or Exceeds MIL-L-2104D, Allison C3 and Caterpillar TO-2



Available Packsize :  
1 litre, 5 litres, 18 litres, 200 litres

GASOLINE

# DRIVE FAST RACE HARD



## GASOLINE ENGINE OILS



**PULZAR PZR  
SUPER SYNTHETIC X-TREME**  
SAE 5W-30  
ACEA C3

Extreme High Performance Fully Synthetic Motor Oil

Top-Tier Fully Synthetic Engine Oil with PAO component for European Gasoline Engine and Light Duty Diesel Engine equipped with turbo-chargers and most modern intricate After Treatment Device

With the (MR<sub>7</sub>) technology helps to deliver the ultimate engine protection across a variety of driving conditions and temperatures

Maximizes engine efficiency and enhances engine power output

Superior fuel economy

Meets the European Automobile Manufacturers' Association of ACEA C3

Meets or exceeds ACEA C3-12, C3-10, BMW Longlife-04, DAIMLER MB 229.51 (V2009.1), 229.51 (V2012.2), PORSCHE C30 and VOLKSWAGEN 50700, 50400

Available Packsize :  
1 litre, 4 litres



**PULZAR PZR  
SUPER SYNTHETIC**  
SAE 5W-40  
API SN

Super High-Performance Synthetic Motor Oil

Premium Gasoline and Light Duty Diesel Fully Synthetic Engine Oil for both of European and Japanese vehicles

For direct injection gasoline engine which install catalytic convertor and light duty diesel engine which equipped the turbo-chargers and diesel particulate filter

With the (MR<sub>7</sub>) technology helps to deliver the ultimate engine protection across a variety of driving conditions and temperatures

Prolongs the engine life and keeps the engine clean

Meets API service classification of API SN

Meets or Exceed API SN, ACEA C3-16, ACEA C3-10, DAIMLER MB 229.51, GM DEXOS 2, VOLKSWAGEN VW 50500/50501, BMW LONGLIFE-04, and PORSCHE A40

Available Packsize :  
1 litre, 4 litres



GASOLINE

# DRIVE FAST RACE HARD



**PULZAR PZR  
SEMI SYNTHETIC**  
SAE 10W-30  
API SN

Top-Quality Semi-Synthetic Passenger Car Motor Oil for Gasoline and NGV/LPG Engines

Suitable for use in Gasoline Engines Fueled with Gasohol such as E10, E20, E85 and CNG/LPG

With Modified Release Technology (MR<sub>2</sub>) helps to deliver ultimate engine protection across a variety of driving conditions and temperatures

Exceptional flow in low viscosity ensures the efficiently engine protection maximizes the engine efficiency and enhances maximum engine power output

Meets or Exceeds API Service Classification of API SN and ILSAC GF-5

Available Packsize :  
1 litre, 4 litres

**PULZAR PZR  
SEMI SYNTHETIC**  
SAE 10W-40  
API SN

Top-Quality Semi-Synthetic Passenger Car Motor Oil for Gasoline and NGV/LPG Engines

Suitable for use in Gasoline Engines Fueled with Gasohol such as E10, E20, E85 and CNG/LPG

With Modified Release Technology (MR<sub>2</sub>) helps to deliver ultimate engine protection across a variety of driving conditions and temperatures

Special booster helps to improve the speed acceleration

Maintains high thermal resistance and consistent viscosity over a wide range of temperature

Keeps engines clean with powerful detergent systems

Meets or Exceeds API Service Classification of API SN

Available Packsize :  
1 litre, 4 litres

GASOLINE



**POWERFUL** *but*  
**FRIENDLY**

**PULZAR PZR SEMI SYNTHETIC FOR HYBRID/ECO CAR**

SAE 5W-30 API SN (For Export Only)

Premium Quality Semi Synthetic Motor Oil for Hybrid and Eco Vehicles

Specially formulated for Hybrid and Eco cars

Special ZDP System protects the engine, provides enhanced wear protection and improves fuel economy

Advanced technology friction modified booster with exceptional lubricity

Compatible with ethanol fuel (E20 – E85)

Meets API Service Classification of API SN and ILSAC GF-5

Available Packsize :  
1 litre, 4 litres



**VINTAGE** *but*  
**HAPPY**

**PULZAR PZR HIGH MILEAGE OIL**

SAE 15W-40

API SN

Superior Motor Oil for High Mileage Engines

Specially formulated for high mileage engines (100,000 + km)

Restores engine power

With Modified Release Technology (MR<sub>+</sub>) helps to deliver ultimate engine protection across a variety of driving conditions and temperatures

Enhances with special conditioning agent to help stop leaks from seals

Helps clean out accumulated sludge with powerful detergent compounds

Meets API Service Classification of API SN

Available Packsize :  
1 litre, 4 litres



**MOTORCYCLE OILS**



**4 STROKE  
SCOOTER**

**PULZAR RACING 4T  
SAE 10W-30, API SL, JASO MB**

Premium Motorcycle Oil for 4-Stroke Scooters

High-quality synthetic base oils and premium Group II base stock provide improved friction durability and maintain viscosity and engine temperature in high-temperature conditions

Powerful TBN detergent minimizes soot, keeping the engine clean and providing improved acceleration and fuel economy

Protects engine from wear and soot and provides high-temperature and high-shear resistance in heavy-duty and high-stress conditions

Balanced chemicals increase riding performance and acceleration

Suitable for automatic transmissions motorcycles and next-generation engines with fuel injection

Designed for Modern Scooter Application with Special HDZP-15 Technology and JASO MB Booster to enhance engine cleanliness and durability

Meet API Service Classification of API SL and JASO MB (T 903:2011)



Available Packsize :  
0.8 litre



**4 STROKE  
MOTORCYCLE**

**PULZAR RACING 4T  
SAE 10W-30, API SL, JASO MA2**

Premium Motorcycle Oil for 4-Stroke Motorcycles with Manual Transmissions

High-quality synthetic base oils and premium Group II base stock provide improved friction durability and maintain viscosity and engine temperature in high-temperature conditions

Powerful TBN detergent minimizes soot, keeping the engine clean and providing improved acceleration and fuel economy

Designed for high-stress, high-temperature and high-shear resistance conditions, particularly in hot and humid climates

Achieves optimal friction level to protect against clutch slippage

Excellent lubricity protects and cleans the engine to prolong its life

Balanced chemicals increase riding performance and acceleration

Protects engines, transmission and wet clutches from accumulated heat and high carrying loads

Suitable for motorcycles with manual transmissions and next-generation engines with fuel injection

Designed for 4T motorcycle with Special HDZP-15 Technology and balanced chemistry to provide clutch friction, enhances engine cleanliness and durability

Meet API Service Classification of API SL and JASO MA2 (T 903:2011)



Available Packsize :  
0.8 litre

AUTOMATIC TRANSMISSION

**FIT TIGHT**  
and **QUIET**



**TRANSMISSION  
OILS**



**PULZAR ATF AUTOMATIC TRANSMISSION FLUID (DEX III)**

Suitable for vehicle that requires Dexron II-D, II, Dexron III-H, III-G, III, MERCON, Allison C-4, Allison TES 389 and Caterpillar TO-2

Outstanding protection properties over wide range of temperature

Improved hydrolytic stability

Maintains constant viscosity for smooth gear changing

Outstanding shear strength and anti-wear performance

Can be used as power steering fluid

Available Packsize :  
1 litre, 4 litres, 5 litres

**AUTOMATIC TRANSMISSION**

# FIT TIGHT and QUIET



**PULZAR TRANSMATIC™  
MULTI-VEHICLE ATF (FULLY SYNTHETIC)**

Designed to provide excellent lubrication transmission for both modern European and Japanese

Controlled friction properties for smooth and efficient transmission of power across of temperature ranges

Helps to extend transmission life based on excellent wear protection

**Suitable for :**  
Toyota WS, WS (JWS 3324), Toyota T, T-II, T-III, T-IV+, Ford M – Mercon, Mercon V, PSA AL-4, General Motors DEXRON-II, IID, III, IIIG, IIIH, Renault DP-0, Honda ATF Z-1, Honda DW-1, Hyundai/Kia SP-II, SP-III, JWS 3314, JWS 3317, SP-IV, SPH-IV, SP-IV RR, Hyundai NWS-9638, Idemitsu K17 (JATCO) JASO 1-A, JASO 1-A-LV, JWS 3309 (Aisin Warner), JWS 3324, Kia Red-1, Mazda ATF-M III, ATF-MV, Mitsubishi SP-II, SP-III, SP-IV, ATF-J2, Nissan 402, Nissan Matic-D, J, K, S, W, Subaru ATF, ATF-HP, Suzuki 3314, 3317, Audi G 052 162, G 052 990, G 055 025, G 055 005, G 055 162, BMW 7045E (3 Series), BMW 5 Series, LA 2634, LT 71141, 83 22 0 142 516, 83 22 2 152 426, Mercedes-Benz; MB 236.1, 236.2, 236.3, 236.5, 236.6, 236.7, 236.9, 236.11, 236.81, 236.12, 236.14, 236.15, 236.41, Mercedes-Benz MB 236.10 (NAG 1/Shell 3403), PSA AL-4, Renault DP-0, Saab 93 165 147, Texaco N402 (JATCO), ETL-7045E (BMW 7045E), ETL-8072B (BMW 5 Series), Volvo 4 speed (P/N 1161621), Volvo P/N 1161540/1161640+, Volvo 6 speed MY 2011-2013 (P/N 31256774 or 31256675), V W G 052 162, G 052 990, G 055 025, G 052 540, G 055 005, G 055 162, ZF 6 Speed (S671 090 255), Ford XL-12 Transfer Case, Allison C-4, Allison TES-389, TES-389B, Allison TES-295, MAN 339F, 339 Type V-1, 339 Type Z-1, Voith H55.6335, Volvo 97340, 97341, ZF TE-ML 09, 11(3/4/5 speed), 03D, 04D, 05L, 16L, 17C, 14A, North American models, Aisin Warner AW-1, Chrysler

**Available Packsize :**  
1 litre



**PULZAR TRANSMATIC™  
MULTI-VEHICLE CVTF (FULLY SYNTHETIC)**

Specially designed formulation to provide high performance for both belt-CVT and chain-CVT applications

Prevents wear at the metal-to-metal contact points on parts of transmission system, especially belts and pulleys for longer transmission life

Excellent metal friction performance along with exceptional anti-shudder durability

Utmost shear stability

Better foam protection and ultimate performance in wide range temperature

**Suitable for :**  
Audi/VW (TL 52180; G 052 180; G 052 516), Ford (CVT30/WSS-M2C933-A/ Motorcraft XT-7-QCFT, MERCON C), Subaru (Lineartronic CVTF, high torque CVTF, K0425Y0710), BMW 8322 0 136 376/ 8322 0 429 154 (EZL 799A), Daihatsu Amix CVTF-DC, Daihatsu Amix CVTF-DFE, Dodge/Jeep (NS-2, CVTF+4/ MOPAR CVT 4), Ford (CVT23), GM/Saturn (DEX-CVT,GM CVT), Honda (HMMF, HCF-2\*), Hyundai/Kia (SP-CVT 1), Mazda CVTF 3320, Mercedes Benz CVT28/MB-Approval 236.20, Mini Cooper (EZL 799A/ ZF CVT V1), Mitsubishi DiaQueen (CVTF-J1, CVTF-J4\*), Nissan (NS-1, NS-2, NS-3\*), Punch (EZL 799A), Shell Green 1V, Subaru e-CVTF, i-CVT, CV30, Suzuki (CVTF 3320, TC, NS-2, CVTF Green 1, CVTF Green 2\*), Toyota/Lexus (TC, FE\*, WS (Prius eCVT only)

**Available Packsize :**  
1 litre

**PULZAR TRANSMATIC™  
MULTI-VEHICLE DCTF (FULLY SYNTHETIC)**

Superior multi-vehicle DCT fluid with outstanding friction durability for consistent performance over the oil life

Stronger load-carrying ability for better clutches, gear and bearing protection

Excellent seal compatibility helps protect against fluid leakage

Excellent protection of the transmission against wear and corrosion

Excellent anti-shudder durability for better shift feeling

Better foam protection and ultimate performance in wide range temperature

**Suitable for :**  
VW TL 052 182, VW TL 052 529, BMW 83 22 2 148 578, 83 22 2 148 579, 83 22 0 440 214, 83 22 2 147 477, Peugeot/Citroen 9734.S2, Ford M2C936A, MB 236.21 (001 989 85 03), Mitsubishi MZ320065 Dia-Queen SSTF-I, Ford M2C936A, Porsche Oil No. 999.917.080.00, VW TL 052 182, Volvo 1161838 1161839



**Available Packsize :**  
1 litre

**MANUAL TRANSMISSION**



**PULZAR LS GEAR MAX**  
SAE 80W-90, SAE 85W-140  
API GL-5  
High-Performance Multi-Grade Limited Slip Gear Lubricant

- Excellent limited slip capabilities
- Provides protection against rust and corrosion
- Outstanding shear strength
- Maintains constant viscosity for smooth gear changing
- Withstands high shock loads with a special EP for excellent wear protection
- Meets or Exceeds API GL-5 specification and API MT-1

**Available Packsize :**  
1 quart (0.946 litres)

**PULZAR ADVANCE EP GEAR**

SAE 80W-90, SAE 85W-140  
API GL-5

Multi-Grade Gear Oil for Manual Transmissions with Superb Protection Properties

- Specially formulated for manual transmissions and heavy-duty axles installed in trucks, vans and pick-ups
- Protects gears and axles from high torque
- Proven axle and transmission performance
- Helps protect gear set against all forms of wear
- Always follow the vehicle manufacturers instructions
- Meets or Exceeds API GL-5 specification, API MT-1, Mack GO-J and SAE J 2360

**Available Packsize :**  
1 litre, 5 litres, 18 litres



**PULZAR EP GEAR**

SAE 90, SAE 140  
API GL-5

Gear Oil for Heavy-Duty and Extreme Pressure Applications

- Recommended for use in hypoid and spiral bevel gear differentials and industrial gear units
- Improves friction resistance between gear axles
- Provides outstanding anti-foam protection Extends transmission life
- Meets or Exceeds API GL-5 specification

**Available Packsize :**  
1 litre, 5 litres, 18 litres, 200 litres



**PULZAR GEAR LUBRICANT**

SAE 90, SAE 140  
API GL-1

Gear Oil for Gears and Axles made of Yellow Metal

- Inactive compounds avoid corrode brass or bronze
- Provides outstanding anti-foam protection and enhances lubricity properties
- Maintains lubricity properties longer than the typical API GL-1 standard
- Meets or Exceeds API GL-1 specification

**Available Packsize :**  
1 litre, 5 litres, 18 litres, 200 litres

HYDRAULIC



### PULZAR AW HYDRAULIC OIL

ISO 32/46/68/100

Premium Quality Anti-Wear Hydraulic Oil

Excellent thermal stability

Maintains hydraulic performance over a wide range of temperature

Highly resistant to oxidation that results in sludge formation

Resists formation of oil-water emulsions

Exceeds Parker Hannifin France (Denison) HF-0 and DIN 51524 Part 2 specifications

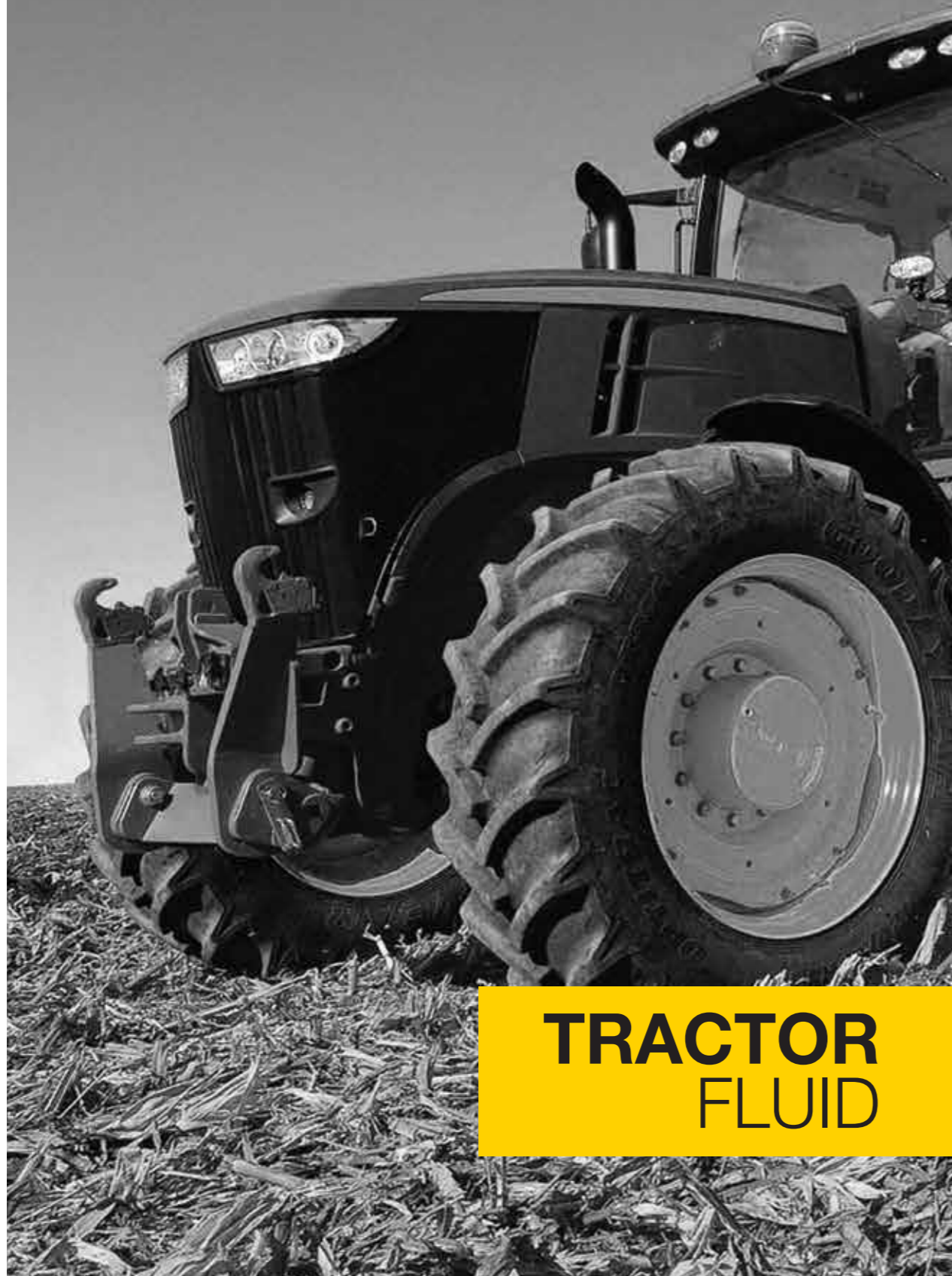
Meets or Exceeds AFNOR NF E48-603 (HM&HL), Denison TPO2100, Din 51524 part 1 & part 2 (HLP), US Steel 1268127, Vickers I-286-s and Parker Hannifin France (Denison) HF-0 Specifications

Available Packsize :

1 litre, 5 litres, 18 litres, 200 litres

# HYDRAULIC OILS

**TRACTOR**



**TRACTOR  
FLUID**



**PULZAR SUPER UTF**

Farm Vehicles from Various Manufacturers Including John Deere, Kubota UDT, Ford-New Holland and Massey Ferguson

- Provides excellent gear, bearing and hydraulic pump protection
- Reduces brake chatter
- Provides outstanding foam control
- Improves load carrying capacity
- Excellent seal, pump and valve protection
- Meet OEM's requirements of John Deere JDM J20C/D, Massey Ferguson CMS M1145, Ford New Holland M2C134D, CNH MAT 3525/3526, API GL-4, Parker (Denison UTTO, HF-0 - HF-02), Eaton Vickers (Mobile hydraulic systems-Brochure 694), Allison C4, Massey Ferguson M1135/M1141 (Permatran III)/M1143, Ford M2C86-B, Caterpillar TO-2, Case MS 1204/1206/1207/1209, Kubota UDT, JCMAS HK P-041 & -P042

Available Packsize :  
6 litres, 18 litres

**PULZAR HTF S. 7884**

Multi-Purpose Tractor Fluid

- Suitable for older tractors
- Provides excellent gear, bearing and hydraulic pump protection gear
- Good seal compatibility
- Meets API Service Classification of API GL-4
- Meet OEM's requirements of Deutz-Allis, J.I. Case, Caterpillar, John Deere, Ford, International Harvester, Kubota, Massey Ferguson Oliver Renk, Steiger, Sauer Sunstrand, Versatile and White Farm (Minneapolis-Moline Oliver)

Available Packsize :  
5 litres, 18 litres, 200 litres



SPECIALTY PRODUCTS

# SPECIALTY PRODUCTS



**PULZAR SUPER COOLANT**  
Superior Pre-Mixed Radiator Coolant

- Suitable for gasoline and diesel engines
- Provides excellent protection against all forms of wear in the cooling system
- Maintains engine temperature under all conditions
- Solves the heat accumulation problem for improved fan and radiator efficiency
- Meets or Exceeds Ford specification WSS-M97B44-D, Mercedes-Benz specification 325.3, General Motors specification GM 6277M, MAN specification 324 type SNF and Volkswagen specification TL774F

Available Packsize :  
1 litre, 5 litres



**PULZAR SOLUBLE CUTTING OIL**  
Cutting Oil for Sawing, Milling, Turning, Grinding and Drilling Operation

- Suitable for use in turning and grinding work in conditions of high temperature and extreme pressure
- Compatible with both metal and stainless steel
- Excellent cooling properties
- Prolongs tool life
- Provides outstanding anti-foam protection
- Improves surface finish
- Bacteria-resistant

Available Packsize :  
18 litres, 200 litres

GREASE



GREASE



**PULZAR Z-ZERO**

High Performance Semi-Synthetic Grease NLGI 3

Long-lasting extreme pressure bearing grease provides excellent high-temperature performance for heavy-duty automotive wheel bearings, off-road equipment and other industrial applications

High temperature resistance dropping point min. 550°F (290°C)

Excellent water resistance, protection against rust and corrosion

Available Packsize :  
24/0.5 kg, 12/2 kg, 4/5 kg,  
2/10 kg, 18 kg, 180 kg

**PULZAR Z-1 GREASE**

Multi-Purpose Automotive and Industrial White Grease NLGI 3

Multi-purpose grease with high dropping point

Cream-white color allows quick discovery of wear

Excellent protection against wear, rust and corrosion

Available Packsize :  
24/0.5 kg, 12/2 kg, 4/5 kg,  
2/10 kg, 180 kg

GREASE



**PULZAR Z-2 GREASE**

Multi-Purpose grease with Extreme Pressure Application NLGI 3

- Suitable for truck wheel bearing, off-highway equipment and industrial applications
- Outstanding extreme pressure and anti-wear protection
- Dropping point 390°F (200°C)
- Protection against rust, corrosion and resistance to water washout

Available Packsize :  
24/0.5 kg, 12/2 kg, 4/5 kg,  
2/10 kg, 180 kg

**PULZAR Z-3 GREASE**

Semi-Synthetic Grease with Special EP Additive and Moly 3% NLGI 2

- Contains 3% MOLYBDENUM DISULFIDE (MoS<sub>2</sub>) for maximum friction reduction
- Suitable for axles, fifth wheel and backhoe gears
- Protects against rust and corrosion
- Long service life
- Excellent water resistance

Available Packsize :  
30/200 g, 24/0.5 kg, 12/2 kg,  
2/10 kg, 180 kg



**PULZAR Z-4 GREASE**

Premium Semi-Synthetic Grease with Outstanding High-Temperature Resistance NLGI 3

- Dropping point over 580°F (300°C)
- Excellent extreme pressure and anti-wear performance
- May be used continuously at temperatures up to 375°F (190°C)
- Protection against rust, corrosion and resistance to water washout

Available Packsize :  
24/0.5 kg, 12/2 kg, 4/5 kg,  
2/10 kg, 180 kg



**PULZAR Z-BLUE**

PULZAR Z-BLUE is a high performance BLUE grease designed for automotive and industrial applications, especially in Heavy duty wheel bearing and Heavy duty industrial application.

- Dropping Point 550°F (290°C)
- High operating temperature capability
- Suitable for highly loaded and vibratory working conditions
- Maximum equipment protection
- Long service life
- Excellent anti-corrosion properties
- Excellent water resistance
- Very adhesive to surfaces
- NLGI 3

Available Packsize :  
24/400 g, 4/5 kg, 2/10 kg, 18 kg

**PULZAR HEAVY GREASE**  
PERFORMANCE, PROTECTION AND HIGH QUALITY  
(Export Only)

PULZAR HEAVY GREASE a heavy-bodies product formulated with calcium soap to give it extreme water-proof essentials, PUZAR HEAVY GREASE designed for tractor track rolls all type of agricultural equipment constrution machinery, machine tools, logging equipment and fresh salt water dredges.

- Excellent water resistance
- Excellent rust and corrosion control
- Excellent Mechanical stability
- Metal surface protection through high quality base oil
- NLGI 2 plus



Available Packsize :  
24/1 lb, 6/4 lb, 30 lb, 180 kg