



PETRONAS



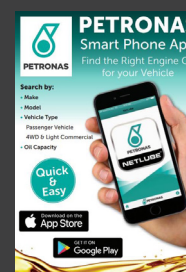
Product Catalogue

Lubricants for all heavy duty off-highway applications in Agricultural and Construction Machinery




PETRONAS
Fluid Technology
Solutions™

Intelligent approach to your fluid requirements that maximises your business performance through tailor-made product offerings and expert services.



Download the
NetLube App
from the App Store
or Google Play

To order, contact: LubeSales.au@pli-petronas.com (AUS), LubeSales.nz@pli-petronas.com (NZ) or call us on +61 2 8833 4200



Ready for the world of tomorrow, today

PETRONAS Lubricants International Sdn Bhd (PLI) is the global lubricant manufacturing and marketing arm of PETRONAS. Established in 2008, PLI manufactures and markets a full range of high-quality automotive and industrial lubricant products in over 90 markets globally. With main office in Kuala Lumpur, Malaysia, PLI has over 30 marketing offices in 28 countries, managed through regional officers in Kuala Lumpur, Turin in Italy, Belo Horizonte in Brazil, Chicago in the USA, and Durban in South Africa. Ranked among the world's top 10 lubricant players, PLI is driving an aggressive business growth agenda sustaining its current position as a leading global lubricant company.

We strive to deliver maximum value to our customers, the markets in which they compete and consumers – while minimising our impact on the environment, pioneering high performance fluids that are dedicated to emission reduction and manufactured in increasingly low CO₂ environments.

We're an ambitious business, driven by a relentless, restless energy.
What's next? What if?
How can we? Why don't we?

We're unstoppable. We are PETRONAS.



New PETRONAS Urania with StrongTech™ technology

Engineered to stay stronger for longer

To withstand the hostile environment deep inside the engine over long distances and in stop/start operating conditions, an oil needs to be incredibly resilient.

It needs the durability to maintain its optimal viscosity in the face of high temperatures and harmful deposits.
It needs core strength.

PETRONAS Urania with StrongTech™ technology is engineered to stay stronger for longer, forming a uniquely strong fluid film to extend drain intervals and engine life, maximise performance and profitability, and give you the core strength to keep moving.



Stronger fluid

- Reduces metal-to-metal contact even at extreme temperatures.
- Controls harmful soot and deposits thanks to stronger cleaning properties.
- Resists oxidation and viscosity loss caused by high temperatures or high shear.

Stronger engine

- Delivers more power and torque.
- Offers longer engine life.
- Reacts faster to prevent issues.
- Extends DPF life.

Stronger vehicle

- Runs for longer even in harsh external conditions and under the stress of different driving styles.
- Delivers reduced emission thanks to improved fuel efficiency.
- Enables lower operating costs.

Engine Oil

PETRONAS Urania 3000 K-LS

10W-40 CK-4



PETRONAS Urania 3000 K-LS 10W-40 is a semi synthetic engine oil formulated with StrongTech™ technology, engineered to stay stronger for longer, forming a uniquely strong fluid film to extend drain intervals and engine life, maximise performance and keep your diesel engines running. This helps in extending engine life and reduces the total cost of ownership

PETRONAS Urania 3000 K-LS 10W-40 is a low SAPS oil that is suitable for Euro VI, China VI, Bharat VI heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using DPF, SCR, DOC and EGR technologies. It is also suitable for older turbocharged and naturally aspirated diesel engine generations, both on-highway and off-highway, running on high or ultra-low Sulphur diesel and bio-diesel.



Benefits:

PETRONAS Urania 3000 K-LS 10W-40 enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.
- Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability.
- Longer oil drain capability:
 - Optimal protection for emission after-treatment systems such as DPF and DOC with low ash additive system.
 - Keeps the acidic level under control, preventing corrosion and increasing the durability and the life of your engine.
 - Enhanced thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions.
- Effectively combats high concentration of soot build up, critical to prevent loss of vehicle horsepower.
- Excellent low temperature viscosity for improved lubrication during start-up.

Specifications:

- API CK-4
- ACEA E7, E9
- JASO DH-2

Performance Level:

- | | | |
|-----------------------|-----------------|----------------------------|
| • Cummins CES 20086 | • MTU Cat 2.1 | • DAF |
| • Deutz DQC III-18 LA | • Renault RLD-3 | • Detroit Diesel DFS93K222 |
| • Mack EOS-4.5 | • Volvo VDS-4.5 | • Ford WSS-M2C171-F1 |
| • MB 228.31 | • CAT ECF-3 | • MAN M 3775 |

Sizes:



New PETRONAS Urania with StrongTech™ technology

Engineered to stay stronger for longer



NEW TECHNOLOGY

Full range
to be introduced
in 2022!

PETRONAS Urania 3000 LS

15W-40 CK-4



PETRONAS Urania 3000 LS 15W-40 CK-4 is a premium engine oil formulated with StrongTech™ technology, engineered to stay stronger for longer, forming a uniquely strong fluid film to extend drain intervals and engine life, maximise performance and keep your diesel engines running.

PETRONAS Urania 3000 LS 15W-40 CK-4 is a low SAPS oil that is suitable for Euro VI and Euro V heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using DPF, SCR, DOC and EGR technologies. It is also suitable for new and old turbocharged and naturally aspirated diesel engines, both on-highway and off-highway, running on high or ultra-low Sulphur diesel and bio-diesel.



Benefits:

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.
- Excellent control in deposit build ups, delivering optimum fleet's engine performance.
- Effectively combats high concentration of soot build up, critical to prevent loss of vehicle horsepower.
- Reduces acidic levels which leads to corrosion, making your fleet engines more durable and longer life.
- Outstanding protection for emission aftertreatment systems such as DPF and DOC with low ash additive system.
- Longer oil drain capability, especially on low emission engines.

Specifications:

- API CK-4
- ACEA E7/ E9
- JASO DH-2

Performance Level:

- CAT ECF-3
- Cummins CES 20086
- DAF
- Detroit Diesel DFS93K222
- Deutz DQC III-10 LA
- Ford WSS M2C171-F1
- Mack EOS-4.5
- MB 228.31
- MAN M 3775
- MTU CAT. 2.1
- Renault RLD-3
- Volvo VDS-4.5

Sizes:



Engine Oil

PETRONAS Urania 3000

15W-40 CI-4



PETRONAS Urania 3000 15W-40 is suitable for heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using SCR and EGR technologies. It is also suitable for new and old turbocharged and naturally aspirated diesel engines, both on-highway and off-highway, running on high or ultra-low sulphur diesel and bio-diesel.

Benefits:

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.
- Excellent control in deposit build ups, delivering optimum fleet's engine performance.
- Effectively combats high concentration of soot build ups, critical to prevent loss of vehicle horsepower.
- Reduces acidic levels which leads to corrosion, making your fleet engines more durable and longer life.
- Longer oil drain capacity, especially on low emission engines.

Specifications:

- API CI-4
- ACEA E7
- GLOBAL DHD-1

Performance Level:

- MB 228.3
- Cummins CES 20078/77
- Mack EO-M Plus / EO-N
- MAN M3275
- MTU Type 2
- Renault VI RLD-2 / VI RLD
- Volvo VDS-3 / VDS-2

Sizes:



PETRONAS Urania 500

SAE 30



PETRONAS Urania 500 SAE 30 is a monograde diesel engine oil, formulated for older commercial vehicle diesel engines to help control against wear and control corrosion.

PETRONAS Urania 500 SAE 30 is suitable for all types of older commercial vehicle diesel applications and high-revolution turbocharged diesel engines for both on-highway and off-highway. It is suitable for use in transmission, differentials or final drives in equipment where API CD/CAT TO-2 fluid is required.

Benefits:

- Piston cleanliness & minimising deposits build ups, protects engine from wear.
- Helps disperse soot, hence reduces soot induced oil thickening.
- Good TBN retention effectively neutralizing the acidic by-products from combustion.

Specifications:

- API CF

Size:

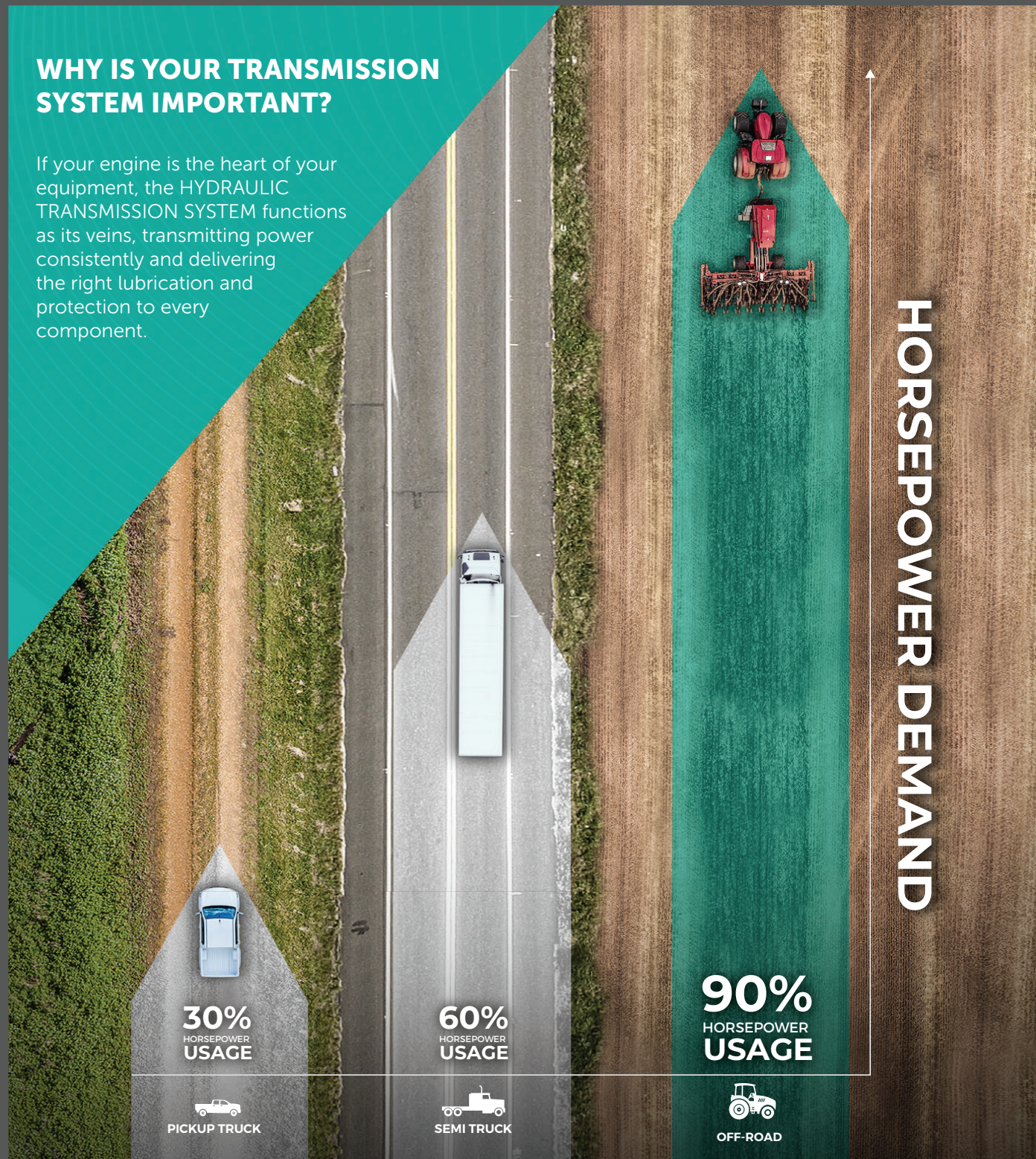


WHY **QUALITY** MATTERS

YOUR OFFROAD EQUIPMENT WORKS AT 90% OF ITS HORSEPOWER CAPACITY WHEN OUT IN THE FIELD. THAT IS **2X HARDER** THAN A SEMITRUCK AND **3X HARDER** THAN A PASSENGER CAR.

WHY IS YOUR TRANSMISSION SYSTEM IMPORTANT?

If your engine is the heart of your equipment, the HYDRAULIC TRANSMISSION SYSTEM functions as its veins, transmitting power consistently and delivering the right lubrication and protection to every component.



Protect your equipment by using the right fluids.

Transmission Oil

Trust PETRONAS
Tutela to protect the
Transmission System
– today and
tomorrow

PETRONAS Tutela Multi UTTO 500

10W-30

PETRONAS Tutela Multi UTTO 500 10W-30 is a premium transmission oil (U.T.T.O.) dedicated to agricultural and construction machinery, able to keep their efficiency and offering a longer life-cycle. Perfect solution for high and long-lasting performance, protecting your machinery from loss of performance and unplanned downtime. Its wide coverage of major manufacturer specifications, thanks to extensive bench testing and field-testing, makes it suitable for use for virtually most of new and aged hydraulic and transmission tractor systems.

PETRONAS Tutela Multi UTTO 500 10W-30 is suitable for transmissions, final drives, hydraulic systems and wet brakes of farm tractors and machinery.

Benefits:

PETRONAS Tutela Multi UTTO 500 10W-30 enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- High anti-wear properties of the mechanical components of the transmission and hydraulic system.
- Enhanced capability to keep transmission and hydraulic systems clean from deposits and sludge.
- High braking efficiency deriving from the presence of balanced friction modifiers.
- Prompt response of the servo controls of the hydraulic circuit ensured by the viscometric stability to changes in temperatures that determines a high and constant pressure in the system.
- Enhanced low temperature viscosity for improved lubrication during start-up.

Specifications:

- API GL-4

Approvals:

- ZF TE-ML 03E, 05F, 17E, 21F

AKCELA AMBRA
PROFESSIONAL SERIES

Performance Level:

- | | |
|-----------------------------|------------------------|
| • AGCO POWERFLUID 821XL | • Fendt |
| • Allison C4 | • FNHA-2-C-201.00 |
| • CAT TO-2 | • Ford ESN-M2C134-D |
| • Denison HF-0/HF-2 | • MAT 3525 |
| • John Deere JDM J20C | • HCE-102 |
| • Massey Ferguson CMS M1145 | • Kubota UDT Fluid |
| • Massey Ferguson CMS M1143 | • Valtra G2-08, G2-B10 |
| • Massey Ferguson CMS M1141 | • VCE WB 101 |
| • Massey Ferguson CMS M1135 | • SDFG OT-1891 |
| • NH 410 B | |



Sizes:



PETRONAS Tutela Trans TO-4

SAE 10W, 30W, 50W & 60W

PETRONAS Tutela Trans TO-4 is a high-quality, advanced technology hydraulic and transmission fluid delivering optimised performance and component durability for today's hydraulic systems, hydrostatic and powershift transmission, axles, final drives and wet brakes. Thanks to extensive bench testing and field-testing that makes it suitable for use in off-highway equipment requiring the Caterpillar TO-4 fluids.

PETRONAS Tutela Trans TO-4 meets the requirement of Caterpillar, Komatsu and other off-highway equipment.

Benefits:

- Significantly improved clutch life, improved friction and anti-wear performance.
- Robust corrosion protection on yellow metals and steel.
- Optimised hydraulic oil stability for consistent operability during the entire service life.
- Good low temperature fluid flow performance.

Approvals and Specifications:

- API CF (SAE 10W, SAE 30)
- CAT TO-4 (SAE 10W, SAE 30, SAE 50, SAE 60)
- ZF TE-ML 03C (SAE 10W)
- ZF TE-ML 03C, 07F (SAE 30)
- API MT-1 (SAE 50)

Performance level:

- Allison C-4 (SAE 10W, SAE 30)
- Komatsu (SAE 10W, SAE 30, SAE 50)

AKCELA AMBRA
PROFESSIONAL SERIES



Size:



PETRONAS Tutela ATF D3

PETRONAS Tutela ATF D3 is a high quality Automatic Transmission Fluid delivering long-lasting shifting performance and component durability for automatic transmissions over their standard service life.

PETRONAS Tutela ATF D3 is suitable for use in many conventional automatic transmissions, power steering and hydraulic systems of passenger cars alongside commercial vehicles and off-highway construction equipment requiring GM DEXRON®-III level of performance. It also meets the requirements of JASO M315-2013 1A and JASO M315-2013 2A, standards recognised by Japanese OEMs for use in automatic transmissions.

Benefits:

- Enhanced anti-wear and gear protection to extend components durability.
- Good thermal and oxidation resistance delivers stability under high temperature, providing viscosity stability to prolong oil life.
- Smooth, shudder-free shift performance under both normal and severe operating conditions.
- Good low temperature fluid film performance.

Approvals and Specifications:

- JASO M315-2013 1A, JASO M315-2013 2

Performance level:

- DEXRON®-IIIH
- GM DEXRON®-IIIG
- Allison C-4
- CAT TO-2
- Ford MERCON®
- Bosch TE-ML 09, ZF TE-ML 09

AKCELA AMBRA
PROFESSIONAL SERIES



Sizes:



Universal Oil

PETRONAS Arbor Universal 15W-40



PETRONAS Arbor Universal 15W-40 is a premium universal lubricant (S.T.O.U.) dedicated to agricultural and construction machinery, able to keep their efficiency and offering a longer life-cycle. Perfect solution for high and long-lasting performance protecting your machinery from loss of performance and unplanned downtime.

PETRONAS Arbor Universal 15W-40 is suitable for engines, transmissions, hydraulic systems and wet brakes of farm tractors and machinery.



Benefits:

PETRONAS Arbor Universal 15W-40 can significantly reduce your operating costs through:

- High anti-wear properties of the mechanical components of the engine and transmission.
- Excellent capability to keep engine, transmission and hydraulic systems clean from deposits and sludge.
- High braking efficiency deriving from the presence of balanced friction modifiers.
- Prompt response of the servcontrols of the hydraulic circuit ensured by the viscometric stability to changes in temperatures that determines a high and constant pressure in the system.
- Excellent low temperature viscosity for improved lubrication during start-up.

Specifications:

- API CF-4/SF
- API GL-4

Performance level:

- CAT TO-2
- NH 030 C
- SDFG OU-1391

Approvals:

- ZF TE-ML 06B, 07B

Sizes:



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS Arbor Universal 10W-40

PETRONAS Arbor Universal 10W-40 is a premium universal lubricant (S.T.O.U.) dedicated to agricultural and construction machinery, able to keep their efficiency and offering a longer life-cycle. Perfect solution for high and long-lasting performance protecting your machinery from loss of performance and unplanned downtime.

PETRONAS Arbor Universal 10W-40 is suitable for engines, transmissions, hydraulic systems and wet brakes of farm tractors and machinery.



Benefits:

PETRONAS Arbor Universal 10W-40 can significantly reduce your operating costs through:

- High anti-wear properties of the mechanical components of the engine and transmission.
- Excellent capability to keep engine, transmission and hydraulic systems clean from deposits and sludge.
- High braking efficiency deriving from the presence of balanced friction modifiers.
- Prompt response of the servcontrols of the hydraulic circuit ensured by the viscometric stability to changes in temperatures that determines a high and constant pressure in the system.
- Excellent low temperature viscosity for improved lubrication during start-up.

Specifications:

- API CF-4/SF
- API GL-4

Approvals:

- ZF TE-ML 06B, 06F, 07B

Performance level:

- NH 526 C

* If not available. Please use AkcelA Multitractor 10W40 or Ambra VT Special 10W40. Check with your local sales representative.

AKCELA AMBRA
PROFESSIONAL SERIES

Size:



Hydraulic Fluids

High Performance Anti-wear Hydraulic Fluids

PETRONAS HYDRAULIC SERIES



PETRONAS Hydraulic Series are high performance anti-wear hydraulic fluids specially developed for a wide range of mobile and industrial hydraulic equipment operating under normal to heavy duty conditions.

Formulated with high quality selected base oils enhanced with advanced anti-wear, anti-oxidant, anti-rust and anti-foam additives, PETRONAS Hydraulic fluids provide high anti-wear protection, smooth operation of the hydraulic system and up to 3x longer lasting performance*.

PETRONAS Hydraulic Series meet or exceed key industrial specifications and OEM requirements.

Benefits:

- Ensures proper protection of equipment components during cold starts.
- Protects equipment components from excessive wear and provides long equipment life.
- Maintains high filter efficiency without giving rise to undue pressure drop, thus increasing filter lifetime.
- Maintains performance levels under high temperatures and pressure, enabling long oil drain intervals.
- Due to high water separability the system is protected from water degenerative effects, maintaining hydraulic system efficiency at required level and reducing maintenance costs.
- Inhibits the corrosion process that occurs in presence of water, improving equipment life.
- Compatible with most metal alloys ensuring trouble free performance of the system.

Performance Levels:

- | | |
|-----------------------------------|-----------------------------|
| • ASTM D 6158 HM (2005) | • ISO 11158 HM (FDIS 2008) |
| • Bosch Rexroth RD90220 | • JCMAS HK P041 (2004) |
| • DIN 51524 Part II HLP (2006) | • GM LS-2 (2004) |
| • Eaton 03-401-2010 | • SAE MS1004 |
| • Fives Cincinnati P-68/P-69/P-70 | • SEB 181 222 (2007) |
| • Parker Denison HF-0, HF-1, HF-2 | • US Steel 126, 127 and 136 |



Sizes:

Hydraulic
Fluid 46



Hydraulic
Fluid 68



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS HYDRAULIC HV SERIES



PETRONAS Hydraulic HV Series are premium performance anti-wear hydraulic fluids specially developed for a wide range of mobile and industrial hydraulic equipment operating under normal to heavy duty conditions, subjected to high variations in operating and/or ambient temperatures, including cold start-ups.

Formulated with high quality selected base oils enhanced with high shear stable VI improver and advanced anti-wear, anti-oxidant, anti-rust and anti-foam additives, PETRONAS Hydraulic HV fluids provide high anti-wear protection, more stable performance across wide temperature range as compared to normal viscosity index products and up to 3x longer lasting performance*.

PETRONAS Hydraulic HV Series meet or exceed key industrial specifications and OEM requirements.

Benefits:

- Ensures proper protection of equipment components during cold starts.
- Protects equipment components from excessive wear and provides long equipment life.
- Maintains high filter efficiency without giving rise to undue pressure drop, thus increasing filter lifetime.
- Maintains performance levels under high temperatures and pressure, enabling long oil drain intervals
- Inhibits the corrosion process that occurs in presence of water, improving equipment life.
- Compatible with most metal alloys ensuring trouble free performance of the system.
- Maintains high efficiency in hydraulic systems, ensures smooth operation due to fast air release. Protects the system from air degenerative effects reducing maintenance costs.

Performance Levels:

- ASTM D 6158 HV
- Bosch Rexroth RD90220
- Parker Denison HF-0, HF-1, HF-2
- Eaton 03-401-2010
- Fives Cincinnati P-68/P-69/P-70
- DIN 51524 Part II HLP and III HVLP (2006)
- ISO 11158 HV (FDIS 2008)
- JCMAS HK P041 (2004)
- GM LS-2 (2004)
- SAE MS1004
- SEB 181 222 (2007)
- US Steel 126, 127 and 136

Sizes:

Hydraulic Fluid HV 46



Hydraulic Fluid HV 68



AKCELA AMBRA
PROFESSIONAL SERIES

Axle Fluids



Axle Fluids have to look after vehicles used in high shock load situations. Failure to protect axle systems can result in axle damage and costly repairs.

PETRONAS Tutela Axle 700 EHD

75W-90



PETRONAS Tutela Axle 700 EHD is a premium fully synthetic axle fluid delivering extended drain intervals and total protection even in most severe conditions for today's transmissions, axles, transaxles, differentials and final drives over their entire service life. Its wide coverage of major manufacturer specifications, thanks to extensive bench testing and field-testing that makes it suitable for use for virtually all heavy-duty transmissions. It's recommended in transmissions requiring SAE J2360 or API GL5/MT-1.

PETRONAS Tutela Axle 700 EHD meets the stringent requirement of most OEMs transmissions, approved by Daimler, MAN, Meritor, Scania, Volvo and ZF; for this reason, it reduces the risk of using the wrong oil and simplifies inventory management.

Benefits:

Extended Drain Interval and Transmission Life driven by:

- Exceptional thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions.
- Enhanced shear stability for a constant film strength and effective lubrication during the oil service life to protect all moving parts.
- Excellent anti-wear, Extreme Pressure (EP), anti-pitting resistance, gear and bearing protection under severe conditions to extend components life.
- Extended transmission fluid life and prevention against fluid breakdown at higher operating temperatures for a total protection of the transmission.
- Excellent low temperature viscosity for improved lubrication during start-up and shifting comfort in cold conditions.

Specifications:

- SAE J2360
- API GL-4/GL-5/MT-1
- MIL PRF-2105E

Approvals:

- MAN 341 Type Z2 and MAN 342 Type S1
- MB-Approval 235.8
- Meritor O76N
- SCANIA STO 1:0 and SCANIA 2:0A FS
- Volvo 97312
- ZF TE-ML 02B, 05A, 07A, 12L, 12N, 16B, 16F, 17B, 19C, 21A

Performance Level:

- DAF
- DETROIT DIESEL DFS93K219.01
- Mack GO-J
- Renault Note technique B0032/2 Annex 3

Size:



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS Tutela Axle 300 LS

80W-90



PETRONAS Tutela Axle 300 LS is a high-quality axle fluid delivering optimized load carrying performances, friction coefficient and component durability for today's limited slip axles, differentials and final drives over their standard service life. It's recommended in transmissions requiring API GL-5 with or without LS.



Benefits:

- Anti-wear, Extreme Pressure (EP), anti-pitting resistance to extend components life
- Good thermal and oxidation stability to prevent formation of deposits and sludge
- Good low temperature fluid flow performance
- Significantly reduced axle noise

Approvals and Specifications:

- API GL-5
- ZF TE-ML 05C, 12C, 21C

AKCELA AMBRA
PROFESSIONAL SERIES

Sizes:



PETRONAS Tutela Axle 300

80W-90



PETRONAS Tutela Axle 300 is an axle fluid delivering optimised load carrying performances and component durability for today's axles, differentials and final drives over their standard service life. It's recommended in transmissions requiring API GL-5.



Benefits:

- Anti-wear, Extreme Pressure (EP), anti-pitting resistance to extend components life.
- Good thermal and oxidation stability to prevent formation of deposits and sludge.
- Good anti-rust and corrosion protection.

Approvals and Specifications:

- API GL-5
- MIL PRF-2105D
- ZF TE-ML 05A, 07A, 08, 12E, 16B, 19B, 21A

Performance Level:

- MAN 342 Type M1, Type M2
- NATO O-226

AKCELA AMBRA
PROFESSIONAL SERIES

Sizes:



PETRONAS Tutela Axle 300

85W-140



PETRONAS Tutela Axle 300 is an axle fluid delivering optimised load carrying performances and component durability for today's axles, differentials and final drives over their standard service life. It's recommended in transmissions requiring API GL-5.



Benefits:

- Anti-wear, Extreme Pressure (EP), anti-pitting resistance to extend components life.
- Good thermal and oxidation stability to prevent formation of deposits and sludge.
- Good anti-rust and corrosion protection.

Approvals and Specifications:

- API GL-5
- MIL PRF-2105D
- ZF TE-ML 05A, 07A, 08, 12E, 16C, 16D

AKCELA AMBRA
PROFESSIONAL SERIES

Sizes:



Coolant

Organic Acid Technology (OAT)
for extended coolant/antifreeze life.

PETRONAS PARAFLU HT P USO BITREX



Long life engine coolant concentrate, antifreeze and protective fluid.
Based on ethylene glycol organic corrosion inhibitors and aversive agent.
Ready to use.

Benefits:

- Special fully OAT (Organic Acid Technology) formulation that allows extended life and therefore, longer coolant change intervals. Does not require the use of supplemental coolant additives (SCAs).
- Superior protection against corrosion of the metal components of the engine and cooling system with which it comes in contact.
- High compatibility with all non-metal components of the engine and cooling system (seals, hoses, reserve tanks, etc.)
- Prevents cylinder liner cavitation.
- Protects the cooling system from electrochemical corrosion.
- Reduces the formation of deposits in the cooling system to enhance pump efficiency and duration
- Improved heat transfer capability.
- It meets the ASTM D 6210 Specification for fully-formulated Ethylene-Glycol-Base engine coolant for heavy-duty engines.

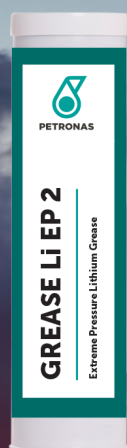
Meets the Specifications:

- ASTM D 6210 Type 3-FF
- MAT 3624
- CUNA NC 956-16
- CUMMINS CES 14603

Sizes:



AKCELA AMBRA
PROFESSIONAL SERIES



PETRONAS Grease Li EP 2

Extreme Pressure Lithium Grease



PETRONAS Grease Li EP 2 is an extreme pressure Lithium grease specially developed for multipurpose applications, lubrication of both plain and anti-friction bearings even where severe or shock loads are experienced.

Formulated with selected mineral base oils enhanced with Lithium 12-hydroxystearate soap, advanced extreme pressure, anti-oxidant, anti-rust and corrosion inhibitors.

PETRONAS Grease Li EP 2 provides high load carrying capabilities, low temperature dispensing and resistance to water wash-out.

Applications:

PETRONAS Grease Li EP 2 is recommended for use in:

- Multipurpose applications
- Lubrication of both plain and anti-friction bearings even where severe or shock loads are experienced
- Pins and bushes, geared couplings at normal speeds
- Vibrating shafts and sliding mechanisms under normal operating conditions.

Benefits:

- Very good performance where low temperature performance is required.
- Contain special EP additives which enable the grease to withstand heavy shock loads without losing the lubricant film.
- Protect bearing surfaces against corrosion, even when the grease is contaminated with water.
- Equipment protection and good lubrication even in presence of water.
- Has good oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits.

Performance Levels:

- DIN 51502 KP2K-30
- ISO 12924 L-XC(F)CHB2

Sizes:



AKCELA AMBRA
PROFESSIONAL SERIES



PETRONAS Grease LiX EP 2/380

Extreme Pressure Lithium Complex Grease



PETRONAS Grease LiX EP 2/380 is an extreme pressure Lithium complex grease specifically developed for high temperature general purpose industrial applications.

Formulated with selected mineral base oils enhanced with Lithium Complex soap, advanced extreme pressure, anti-oxidant, anti-rust and corrosion inhibitor additives, PETRONAS Grease LiX EP 2/380 provides excellent load carrying capabilities, high resistance to water wash-out, even at elevated temperatures.

PETRONAS Grease LiX EP 2/380 meets or exceeds key industrial performance specifications.

Applications:

PETRONAS Grease LiX EP 2/380 is recommended for use in:

- Large plain and anti-friction bearings and applications requiring a high temperature lithium complex grease such as slides, cams and bearings in wet environments.
- Centralised lubrication systems of industrial applications and construction/agricultural machinery.

Benefits:

- Excellent pumpability at low-medium temperatures.
- Contain special EP additives which enable the grease to withstand heavy shock loads without losing the lubricant film.
- Protect bearing surfaces against corrosion, even when the grease is contaminated with water.
- Equipment protection and good lubrication even in presence of water.
- Has good oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits.

Performance Levels:

- DIN 51502 KP2N-30
- GC-LB
- ISO 12924 L-XC(F)DHB2

Size:



AKCELA AMBRA
PROFESSIONAL SERIES

Grease



Specialty Oils

PETRONAS Tutela Axle Oil Additive



PETRONAS Tutela AXLE OIL ADDITIVE is an additive designed to enhance the thermal characteristics in severe temperature applications.

Effective in reducing brake and clutch noise in machinery such as tractors, combines, loaders and forklift non-steer drive axles.

Specific for applications recommending MAT 3540 or MAT 3505.

Use Suggestions:

Add 1 pint of additive to each 7.5 gallons of Hy-Tran Ultra. This concentration can be doubled in specific severe situations to 1 pint in 3.75 gallons, but must never exceed this level of concentration.



Size:



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS Tutela Limited Slip Additive



A specially compounded formula for use in driving axles equipped with any type of limited slip or Power-Lock differentials in agricultural and construction equipment.

Features:

- Reduces clutch plate friction.
- Eliminates clutch chatter.
- Facilitates application and release of clutch plates.

Use Suggestions:

Refer to lubricant chart or operators manual for correct axle lubricant capacity. Add contents to axle through regular lubricant inlet port of axle housing.



Size:



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS Tutela LHM Brake Fluid



Mineral base oil green in colour, specific for hydraulic control of brakes and clutches fitted to tractors and earthmoving machines.

Features:

- Low fluid flowing point for use in low environmental temperatures.
- Excellent properties against corrosion, rust and oxidation processes (metal and non metal).
- High compatibility with all types of seals and gaskets.
- High chemical stability even in the most severe conditions of thermal stress.



Specifications:

- ISO 7308

Performance Level:

- FIAT 9.55597
- IVECO 18-1823 CLASSE 1
- CONTRACTUAL TECHNICAL REF. N°1207.B02
- ENSAYOS INTA - UNE 26-090-88
- PSA-CITROEN B71 2710
- MS-2155

Size:



AKCELA AMBRA
PROFESSIONAL SERIES

PETRONAS Tutela Truck Dot Special Brake Fluid



Synthetic base brake fluid for agricultural machines and earthmoving machines braking systems.

Features:

- High boiling point. This prevents "vapour lock" phenomenon (presence of vapour bubbles in the braking circuit).
- Excellent properties against corrosion, rust and oxidation processes (metal and non metal).
- High compatibility with natural rubber material and gaskets.
- High chemical stability even in the most severe conditions of thermal stress.



Specifications:

- FMVSS 116 - DOT4
- SAE J1703
- SAE J1704
- ISO 4925 Class 4

Performance Level:

- IVECO 18-1820
- CONTRACTUAL TECHNICAL REF. N°1002.F99
- CUNA NC 956-01
- FIAT 9.55597
- ENSAYOS INTA - UNE 26-109-88

Size:



AKCELA AMBRA
PROFESSIONAL SERIES

Truck & Tractor Wash

PETRONAS TRUCK & TRACTOR WASH

Truck and Tractor Wash is a detergent-based heavy duty vehicle wash with "quick-break" properties. Truck and Tractor Wash is formulated to effectively clean heavy industrial equipment such as dump trucks, cranes, prime movers, trailers, dozers and excavators. Truck and Tractor Wash is highly effective for removing most soils including dirt, mud, grime, oil and soot.

Benefits:

Readily biodegradable to AS 4351.2/ISO 7827. "Quick-break" formulation. Universal product for cleaning all types of vehicles. Can be used with low-pressure or high-pressure equipment or for manual cleaning applications. Effective on all surfaces including aluminium.

Use Suggestions:

For heavy-duty cleaning, dilute 1 part Truck and Tractor Wash in 10 parts clean water. Apply by low or high pressure spray equipment. Allow to soak a few minutes, then rinse with clean water. For light vehicle washing, dilute 1 part Truck and Tractor Wash in 20-100 parts clean water. Apply by suitable spray equipment or hand-wash. Allow to soak a few minutes, then rinse with clean water. For difficult areas, apply neat or scrub surface manually.

AKCELA AMBRA
PROFESSIONAL SERIES



Size:





PETRONAS



PETRONAS
Urania



PETRONAS
Tutela



PETRONAS
AKCELA



PETRONAS
AMBRA

PLI AUSTRALIA PTY. LIMITED

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