

Stronger profits – for longer

PETRONAS Urania - supporting your fleet
and your bottom line today, tomorrow
and in the future.

PETRONAS
Urania

Stronger for longer



To order, contact: LubeSales.au@pli-petronas.com (AUS), LubeSales.nz@pli-petronas.com (NZ)
Visit au.pli-petronas.com or call us on 1800 841 566

Tough today, tomorrow and always

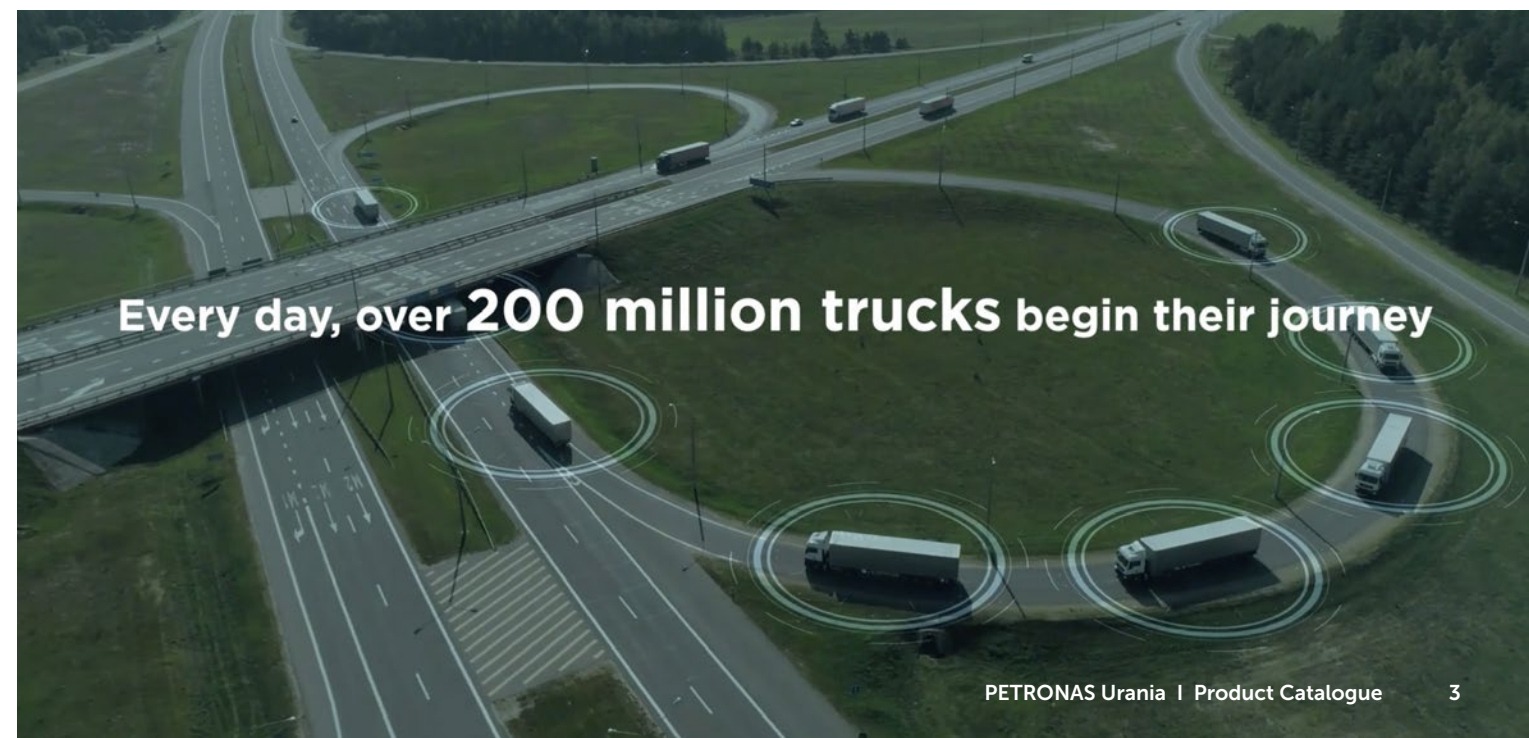
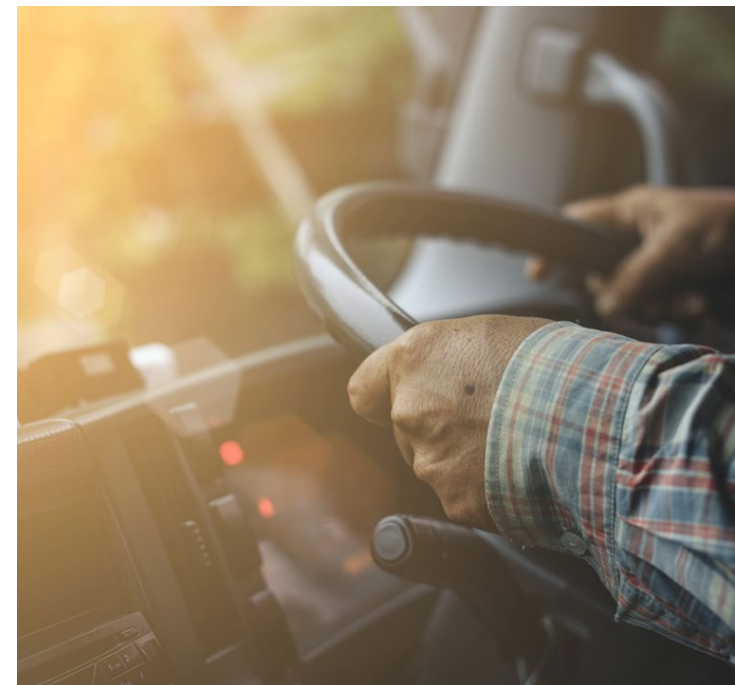
We developed PETRONAS Urania with StrongTech™ technology in 2020. Back then, things seemed tough.

More trucks were completing more deliveries than ever, going further and for longer every day through thick and thin. Businesses had to adjust at warp speed to keep up. Today, things are just as tough – maybe even tougher.

We introduced PETRONAS Urania, our range of engine oils for commercial vehicles, to help companies protect their profits and meet ever-changing challenges. Now, customers expect speed and quality like never before, while emissions regulations continue to tighten all over the world.

That's why PETRONAS Urania with StrongTech™ technology is still the perfect choice for those dealing with heavier demand, shorter timescales and greater pressures.

It's also why we'll continue to spread the message about how PETRONAS Urania delivers stronger profits for longer and supports fleets today, tomorrow and in the future. This document sets out our approach to achieving this, provides information on the whole product range and explains why PETRONAS will always be here to help the industry thrive, no matter how tough things get.



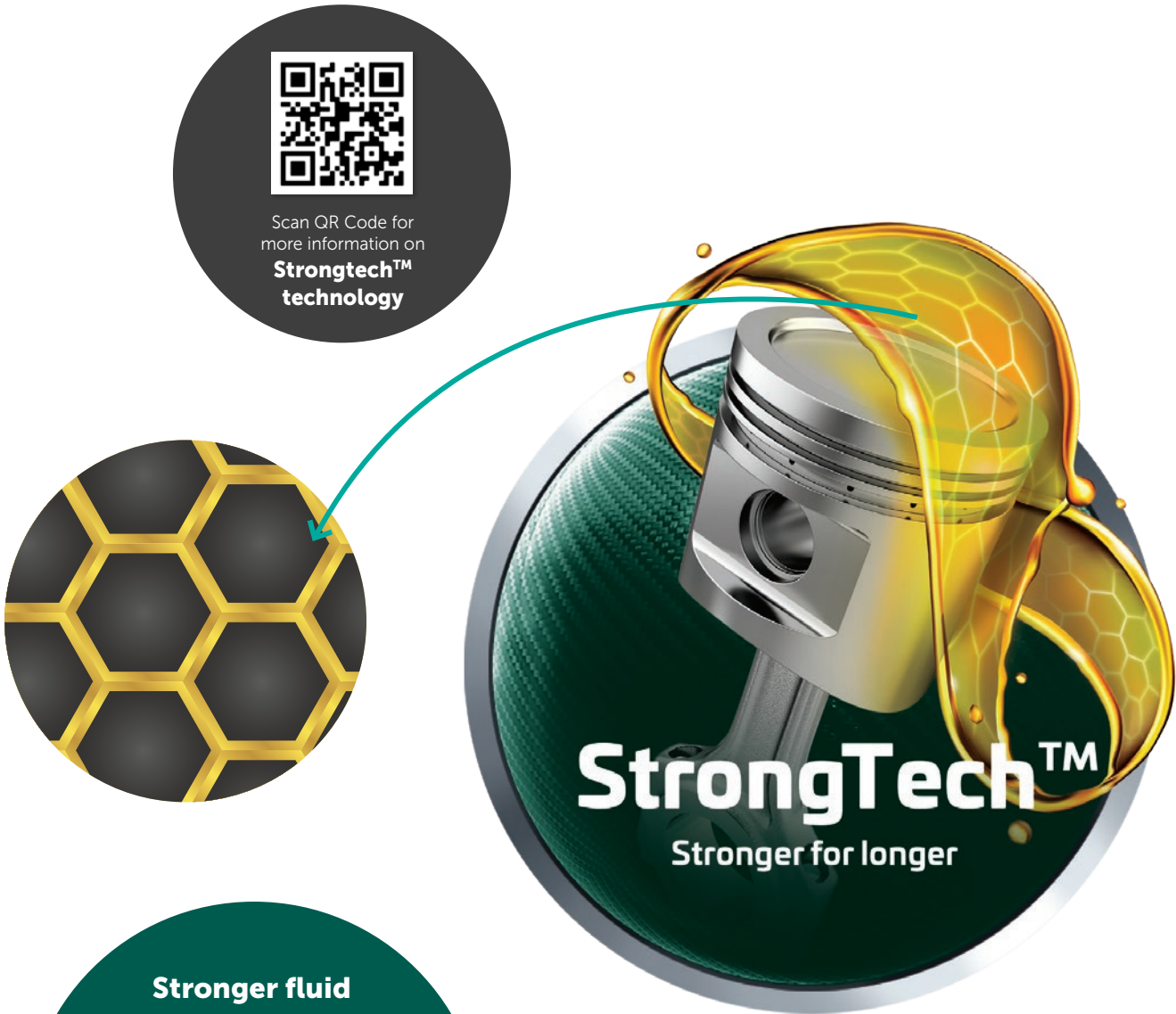
New PETRONAS Urania with StrongTech™ technology

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.

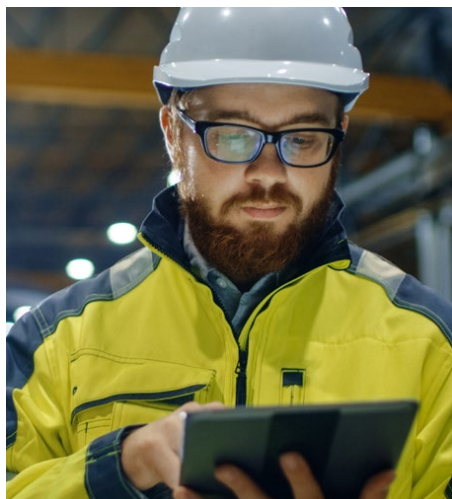
PETRONAS Urania with StrongTech™ technology is engineered to stay stronger for longer, forming a uniquely strong fluid film to extend drain intervals and engine life, maximise performance and profitability, and give you the core strength to keep moving.



- 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.



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 our 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 consumers, customers and the markets in which they operate – while minimising our environmental impact and pioneering high-performance fluids that are manufactured in increasingly low CO₂ environments and are dedicated to reducing emissions.

We're an ambitious business, driven by a relentless, restless energy.

PETRONAS Urania

Product Portfolio

500 SAE 30	3000 15W-40	3000 LS 15W-40 3000 K-LS 10W-40	5000 LS 10W-40 5000 LSF 5W-30	
Mineral Monograde API CF	Mineral API CI-4 ACEA E7 Euro III/IV/V	Low Emission	Low Emission	Low Emission
	OEM Approvals (i.e. MB 228.3) Std SAPS	* StrongTech Improved Core Strength Longer Drain Interval	* StrongTech Ultimate Core Strength Longest ODI Fuel Economy (for 5W-30 variants)	
	Meets OEM Requirements (i.e. MB 228.31) Mid/Low SAPS			
Value	Premium	Prestige		

PETRONAS Urania Range

All product groups

Products		Low Emission <small>(After treatment devices protection)</small>	Fuel Efficiency	Drain interval	Protection	System life	Responsiveness	Cold Start
5000								
5000 LSF 5W-30		●	●	●	●	●	●	●
5000 LS 10W-40		●	●	●	●	●	●	●
3000								
3000 LS 10W-30		●	●	●	●	●	●	●
3000 K-LS 10W-40		●	●	●	●	●	●	●
3000 LS 15W-40		●		●	●	●	●	●
3000 10W-40			●	●	●	●	●	●
3000 E 15W-40				●	●	●	●	●
3000 15W-40				●	●	●	●	●
3000 K 10W-30		●	●		●	●	●	●
3000 K 10W-40		●	●		●	●	●	●
3000 K 15W-40		●			●	●	●	●

- Basic level – most fluids can offer this benefit level.
- Max level – only few premium fluids can offer this benefit level.

Specs Finder for CV Range

Specs Finder 5000, 3000

			API		ACEA		CAT			Cummins			DAF		Daimler-Mercedes			Deutz		Detroi Diesel		Ford			IVECO			MAN			Mack		MTU		PSA		Renault		Scania		Volvo		VW	

● Approved ● Performance Level

PETRONAS Urania 5000



For Heavy Duty Vehicles: Low Emissions, Fuel Economy & Extended Drain Interval

Business benefits:

Enhanced vehicle availability and reduced operating costs

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned downtime
- Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability
- Ultimate fuel economy, due to its low viscosity
- Extended drain interval
- Outstanding protection for emission after-treatment systems
- Keeps acidic levels under control, preventing corrosion and increasing the life of the engine
- Exceptional thermal and oxidation stability under high temperature, preventing formation of deposits and sludge to prolong oil life

Driver Benefits:

Improved driving experience through

- Improved start-up due to exceptional low temperature viscosity
- Effectively combats high concentration of soot build up, preventing loss of vehicle horsepower

For Heavy Duty Vehicles: Low Emissions & Extended Drain Interval

Business benefits:

Enhanced vehicle availability and reduced operating costs

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned downtime
- Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability
- Extended drain interval
- Outstanding protection for emission after-treatment systems
- Keeps acidic levels under control, preventing corrosion and increasing the life of the engine
- Exceptional thermal and oxidation stability under high temperature, preventing formation of deposits and sludge to prolong oil life

Driver Benefits:

Improved driving experience through

- Improved start-up due to exceptional low temperature viscosity
- Effectively combats high concentration of soot build up, preventing loss of vehicle horsepower

PETRONAS Urania 3000



For Heavy Duty Vehicles: Low Emissions

Business benefits:

Enhanced vehicle availability and reduced operating costs

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned downtime
- Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability
- Longer drain interval
- Outstanding protection for emission after-treatment systems
- Keeps acidic levels under control, preventing corrosion and increasing the life of the engine
- Exceptional thermal and oxidation stability under high temperature, preventing formation of deposits and sludge to prolong oil life

Driver Benefits:

Improved driving experience through

- Good start-up due to exceptional low temperature viscosity
- Effectively combats high concentration of soot build up, preventing loss of vehicle horsepower

For Heavy Duty Vehicles: Extend Engine Life

Business benefits:

Enhanced vehicle availability and reduced operating costs

- Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned downtime
- Longer drain interval
- Excellent control in deposit build up, delivering optimum engine performance
- Keeps acidic levels under control, preventing corrosion and increasing the life of the engine

Driver Benefits:

Improved driving experience through

- Good start-up due to low temperature viscosity
- Effectively combats high concentration of soot build up, preventing loss of vehicle horsepower

PETRONAS Urania

Oil Drain Intervals

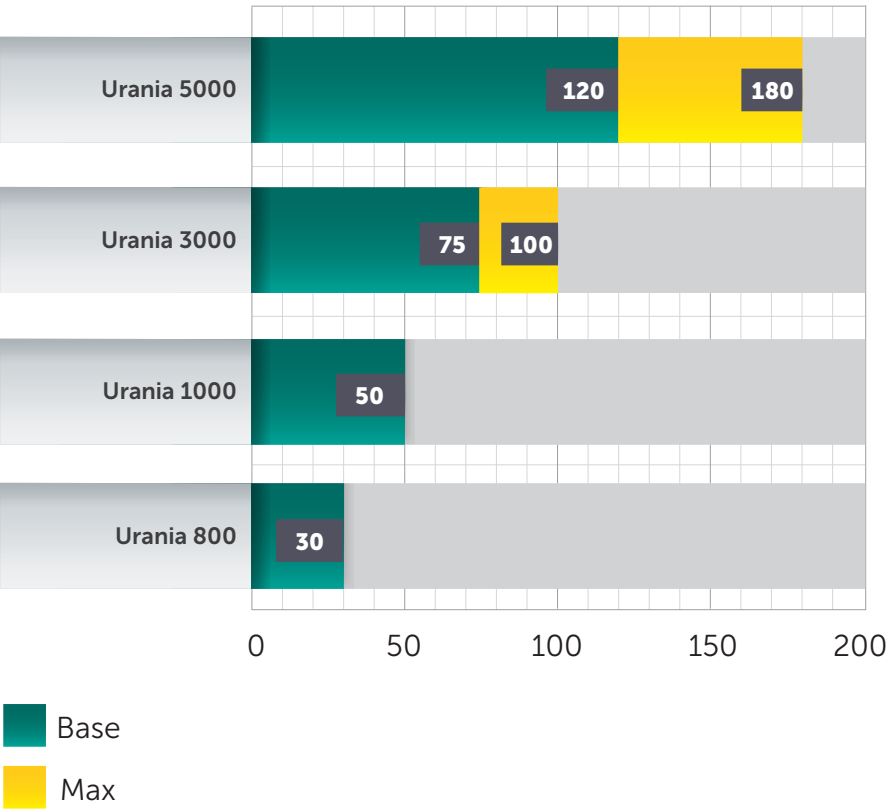
Oil Drain Intervals (ODI) are set by OEMs and are designed to protect the engine following a defined period of usage and exposure to a wide variety of conditions.

Today, many OEMs are striving towards an extended ODI. It is a major selling point because longer intervals can provide truck owners and operators with cost and time savings thanks to reduced downtime and less business disruption – with vehicles staying out on the road for longer.

However, it’s important to remember that oil drain intervals are set for a reason, so extending them must be done safely. It means that the engine’s lubrication must provide the strength to stay stronger for longer, while providing truck owners and operators with the confidence to keep going.

As the table on the right shows, PETRONAS Urania delivers impressive ODIs across the entire product range. The table refers to all products belonging to the Urania 5000, 3000, 1000 and 800 series, and the ODIs are based on the relevant OEM approvals and specifications. Please refer to the specific product design specifications for specific ODIs, and refer to the vehicle handbook for specific cases.

Urania Oil Drain Interval ('000 km)



Urania Oil Drain Interval

- Urania 5000’s base ODI of 120,000 km is based on Mercedes-Benz 228.51 and Mercedes-Benz 228.61 approvals
- Extended ODIs up to 180,000km are based on OEM specific approvals and/or hardware and software requirements
- Urania 3000’s ODI of 100,000 km refers to Volvo VDS-3 and VDS-4.5 approvals
- Urania 3000’s ODI of 75,000 km refers to the Mercedes-Benz 228.3 specification performance level.

Results are according to tests conducted in independent laboratories.

Dakar Rally

Racing beyond the limits

The Dakar Rally is the toughest rally in the world. Drivers must face tough terrain, extreme heat, dangerous amounts of dust, and long, difficult days at the wheel. It's also a test of an engine's strength to go the distance – and get there faster than anyone else.

When the heat is on in the Ténéré desert and the drivers are storming over huge sand dunes at break-neck speeds, there's no margin for error. The Dakar Rally is physically and mentally demanding. These aren't your typical racing conditions and both driver and vehicle are pushed to the limits of their capability. Still, despite the ultra-demanding conditions, all drivers remain ultra-competitive.

Covering anything between 200-900km of treacherous terrain – across sand, mud, rocks and ravines – the drivers have to wrestle their trucks from start to finish, while being fully focused throughout. Race withdrawals due to excessive fatigue and life-threatening injuries are common. Many have lost their lives. So, the drivers must be mentally alert and strong enough to keep moving while living on the edge. To withstand the toughest racing conditions on earth, and take its trucks all the way to the last checkpoint in the top 10, the IVECO Dakar Rally team are able to demonstrate endurance, resilience and stamina. They dig deep and keep going when it's really tough. In order to do this and succeed, they're able to find a core strength within themselves – and their engine oil must do the same



"The first challenge in a Dakar Rally is to reach the final finish line and only a few manage to get all their vehicles across – but we're looking to achieve even more than that."





PETRONAS



PETRONAS Urania

KEEPS YOUR BUSINESS MOVING

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