

Puma Lubricants
Commercial 2017

INTRODUCING PUMA LUBRICANTS



We have a simple goal - to support your business now and into the future by delivering you world class lubricants on time, every time. As your lubricant partner, we are here to help you optimise your operational efficiency and support your Preventative Maintenance Program.



CERTIFIED QUALITY
that keeps you moving

ABOUT PUMA ENERGY

Puma Energy is one of Australia's largest independent energy companies. Since entering the Australian market in 2013, the company has rapidly expanded, now operating more than 270 retail service stations, 21 depots and five bulk seaboard terminals across the country, including an extensive 24-hour diesel network and lubricant trade counters.

Puma Lubricants supplies solutions to commercial customers worldwide in geographies as diverse and challenging as Botswana, Paraguay and Papua New Guinea.

Puma Energy currently delivers to more than 4,000 commercial customers in some of the most challenging and remote areas of Australia.

OPERATING IN

47

COUNTRIES
WORLDWIDE

SERVING OVER

4,000

COMMERCIAL CUSTOMERS
ACROSS AUSTRALIA

WHY CHOOSE PUMA LUBRICANTS?

Puma Energy operates across 47 countries and five continents and has put over two decades of knowledge, expertise and research into its lubricants offering.

Our new Puma Lubricants range has proven performance around the world, from South African mines and Central American transport fleets, to our very own Australian Directhaul road trains.

Puma Energy's employees and technology partners are also renowned for being innovative, dynamic and quick to identify value-adding solutions for our customers.

As well as being one of the first companies to introduce CK-4 diesel engine lubricants into the country, we recently launched Australia's first Tier 3 performance diesel which boosts fuel efficiency by 5 to 12 per cent.

Puma Energy also takes pride in the fact that we offer fully-integrated services that add further value by leveraging our engineering, equipment and storage solutions.

PUMA ENERGY RECENTLY LAUNCHED AUSTRALIA'S FIRST TIER 3 PERFORMANCE DIESEL WHICH

boosts fuel efficiency by 5 to 12 per cent.

Latest technology

Puma Lubricants use the latest state-of-the-art molecular technology, with Puma Energy being one of the first companies to launch CK-4 diesel engine lubricants into the Australian market.



REDUCING ENGINE DOWNTIME

CK-4 diesel engine lubricants offer a new level of protection from wear, oxidation, filter plugging, sludge and soot. They are designed to meet or exceed the new generation of diesel engines with Diesel Particulate Filters, as well as provide better fuel economy, extend oil change intervals and lower CO2 emissions.

Thanks to this advanced technology, Puma's new high-performance lubricants provide maximum protection that translates into less engine downtime and greater productivity.

Our lubricants also improve shear stability and resistance to soot thickening, and decrease bore polish and piston deposits.

CLASS LEADING TECHNOLOGY

Our lubricants are manufactured in Singapore by a world-class manufacturer with a high-tech blending facility. Our range is formulated with leading Group II base oils and blended with premium additives specifically formulated by Puma and its technology partners.

PUMA'S NEW HIGH-PERFORMANCE LUBRICANTS PROVIDE MAXIMUM PROTECTION MEANING

less engine downtime.

Certified quality that keeps you moving

Puma Lubricants meets or exceeds automotive and industry specifications, using the latest technology approved by major Original Equipment Manufacturers (OEM). With diesel engine oil approvals from leading manufacturers including Mack, Cummins, Volvo and Mercedes Benz, our lubricants are at the top of the industry providing high-quality, heavy-duty products for the mining, agricultural, construction and transport sectors, as well as the automotive sectors.

COST-EFFECTIVE, HIGH-QUALITY PRODUCTS

Puma Lubricants provide cost-effective integrated lubricant solutions that reduce equipment downtime and keep you moving.

We understand the constant pressure to drive operational costs down. Our lubricant audits are designed to assist customers to simplify the range of lubricants they use, help them prolong the

life of their capital equipment in support of Preventative Maintenance Programs.

Our extensive lubricants experience is complimented by our ongoing commitment to improving performance through technology and innovation to ensure you are getting the most out of your equipment.

DIESEL ENGINE OIL OEM APPROVALS

Approvals / Specifications are dependent on the product selected.

Approvals:

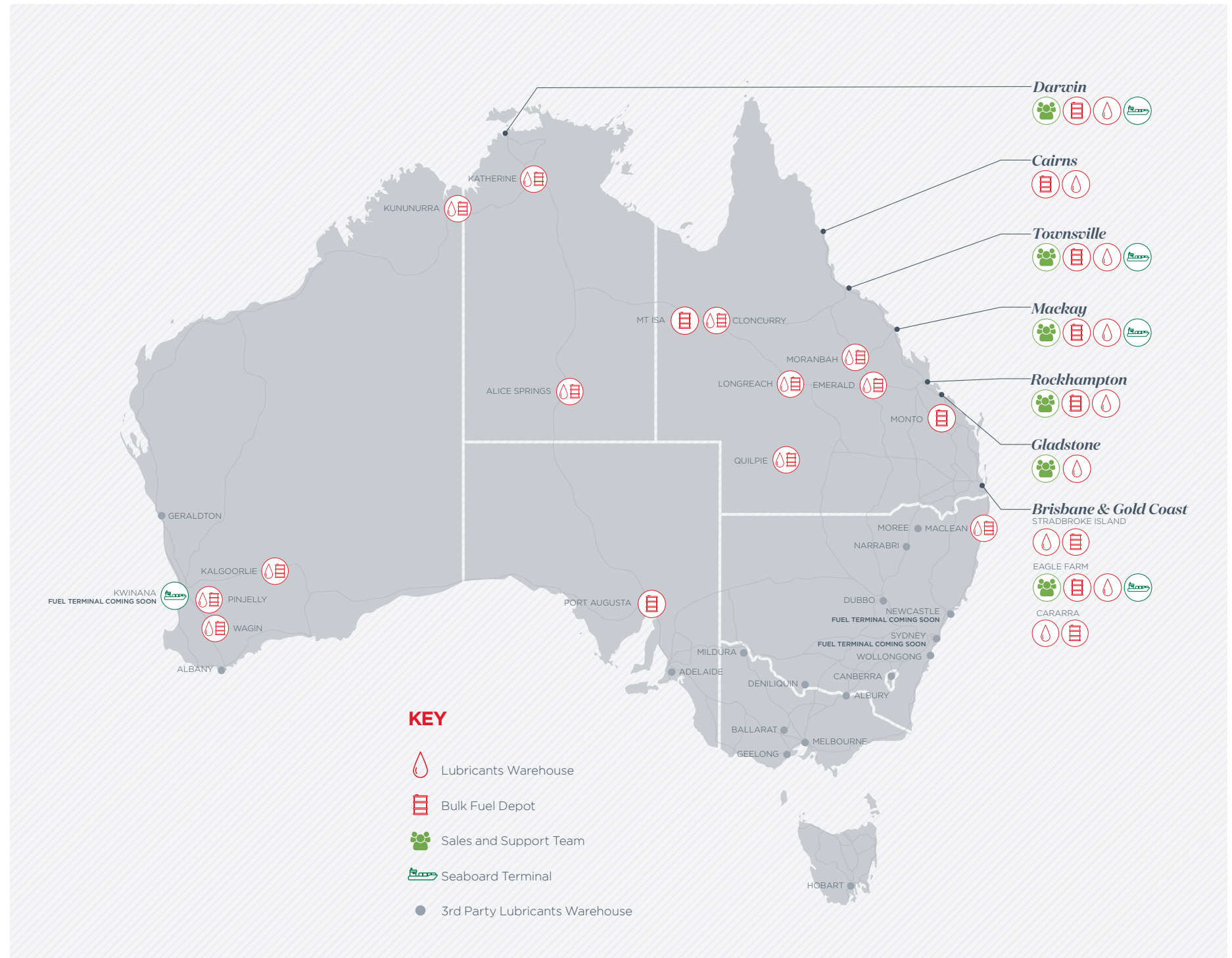
- > API CK-4/SN- CJ-4, CI-4+
- > Volvo VDS-4 , Volvo VDS-4.5
- > Cummins CES-20081, 20086
- > Mack EO-O Premium Plus, EOS 4.5
- > DDC 93K-218, 93K-222
- > Renault VI RLD-3, VI RLD-4

Meets:

- > ACEA E9 (2012)
- > API CI-4 Plus, CI-4, CH-4/SM
- > Caterpillar ECF-3
- > FORD WSS-W2C171-E, Ford WSS-W2C171-F1
- > Man M-3575,
- > Deutz DQC III-10 LA
- > MTU Tipo 2.1

PUMA ENERGY OFFERS LUBRICANT AUDITS TO ASSIST IN SIMPLIFYING THE RANGE OF LUBRICANTS USED, HELPING TO

prolong the life of capital equipment.



RELIABLE SUPPLY

Many of our customers operate in remote and demanding environments – we deliver high-quality products safely and reliably wherever and whenever you need them.

What sets us apart is the ownership of infrastructure, depots and transport, which allows us to deliver fast, flexible service to our customers. Puma Energy has its own fleet of vehicles and drivers with our wholly owned subsidiary, Directhaul, being one of Australia's largest carriers of hydrocarbons.

Puma Energy has 21 lubricant depots with lubricant storage capacity and 22 Directhaul transport depots nationally, with dedicated specialists at each of these locations to ensure our customers get exactly what they need. We also have 150 trucks and 280 trailers capable of delivering both bulk and packaged lubricants.

Fully integrated solution

Our Puma Lubricants range offers customers a fully integrated supply chain and 'one-stop-shop' to meet the complete hydrocarbon and lubricant needs of our customers.

Our products and services are delivered as tailored solutions to help improve maintenance intervals and reduce total operating costs. Our integrated offer is supported by a local lubricant and customer service team who know your area and unique challenges.

Our local experts specialise in providing the right lubricant technology solution and its applications in commercial and heavy-grade equipment.



FULL RANGE OF PRODUCTS

We supply a core range of superior-quality lubricants covering all grades, from monograde to multigrade mineral oil, and from semi-synthetic to fully-synthetic oils for high-performance applications.

Our products include:

- > Heavy duty diesel engine oils for highway and off road
- > Heavy duty hydraulic and gear oils
- > Automatic transmission and drive line oils
- > Gear oils
- > Brake fluids and coolants
- > Detergents and degreasers
- > Greases
- > Diesel engine oils
- > Petrol engine oils.

PUMA LUBRICANT SERVICES AND SUPPORT

With a team of experts from around the world, we are able to provide insight-driven expertise, advice and understanding of the challenges your business faces.

SUPPLY AND DELIVERY SERVICES

- > Bulk lubricant delivery
- > Supply of bulk fuel
- > Delivery of packaged lubricants to site
- > Puma collect service
- > Supply of chemicals and coolants
- > Facilitate waste oil collection
- > Tanks, pumps and associated equipment

LUBRICANTS, FUELS AND HYDROCARBON TRAINING AND SUPPORT

- > Lubricant engineering and technical support
- > Fuels training
- > AS1940 project management
- > Rationalisation of lubricants range
- > Hydrocarbon management training
- > Fluid cleanliness programme
- > Lubricants training - basics, storage and handling
- > Drain interval extension





CASE STUDY
DIRECTHAUL

To demonstrate what Puma Lubricants can do, we are testing our Puma HD Ultra 15W-40 on our hardest working Directhaul road trains that operate in some of Australia's most remote locations, through challenging environmental and road surface conditions.

Our testing has involved ongoing trials on several road trains from Directhaul's fleet, which is a wholly owned subsidiary of Puma Energy Australia.

Independent laboratory testing to date has involved testing the condition of the oil at 35,000 km, or 500-hour oil change intervals with promising results.

The company's road-testing included one of Directhaul's five-year-old Mack MP10 quad road trains operating on Darwin to Alice Springs delivery route, including unsealed roads to customer sites. With a gross vehicle mass of a 155-tonne, this is one of Directhaul's hardest working trucks in the country.

The trial commenced in February during the Northern Territory's harshest season, with tests on the Mack MP10 engine oil have indicating no signs of soot thickening, and a decrease in wear metals by 22% when compared to the previous diesel engine oil in use. Additionally, the viscosity when tested at 100°C stayed in grade for the life of the oil change, thanks to Puma HD Ultra 15W-40 CJ-4 high oil shear stability attributes

Although tests are ongoing, the initial trials demonstrate the benefits of using Puma Lubricants in some of Australia's harshest conditions.

GVM
155t
GROSS VEHICLE MASS

**QUAD
ROAD TRAIN**

REDUCED
WEAR METAL BY
22%
ENGINE OIL RESULTS FOR IRON WEAR
(FE) ON 17 JULY 2017.



CONTACT US

See how our Lubricants Team can help keep you moving

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