



**“Oman Oil Marketing: You trust. We care.”**

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**Castrol  
Lubricants**





# 100 YEARS OF PIONEERING TECHNOLOGY

Founded in 1899, Castrol is a world **leading manufacturer** of premium lubricant products and has over **100 years of expertise** across multiple industries and sectors.

Our pioneering approach to research and development has led to **breakthrough lubricant technologies** and the creation of products that are used in Marine, Oil & Gas and Power Generation businesses across the globe.



THE WORLD LAND SPEED RECORD HAS BEEN BROKEN  
18 TIMES USING CASTROL



CASTROL LUBRICATED THE  
FIRST TRANSATLANTIC FLIGHT



CASTROL IS HELPING TO  
PUSH THE BOUNDARIES OF  
PERFORMANCE WORKING  
WITH LAND ROVER BAR



CASTROL AND  
HONDA WIN  
OVER 500  
MOTORCYCLE  
WORLD  
CHAMPIONSHIP  
RACES



CASTROL GREASE IS PLAYING  
ITS PART IN NASA'S CURIOSITY  
ROVER ON MARS



WE'RE PARTNERS IN THE BLOODHOUND  
1000MPH LAND SPEED  
RECORD CHALLENGE





# THE CASTROL RANGE

Operating efficiency and equipment reliability demand that your Power Generation equipment is optimised and protected at all times.

Our Castrol range of **ENGINE OILS** are designed for power generation units operating across a multitude of operating environments. Castrol TLX Plus is designed for use in Heavy fuel applications, Castrol MHP and Castrol Tecton are for diesel fuel applications and Castrol Duratec is specifically designed for gas engines. The Castrol product portfolio meets industry requirements and carries a range of original equipment manufacturers (OEM) approvals.

Meeting the lubrication demands of today's **TURBINE** equipment is driving innovation, and as pioneers of technology, Castrol has extensive experience of power generation lubrication. The Castrol range of Perfecto premium quality high performance turbine oils are designed for use in gas, steam and Combined Cycle Gas Turbines (CCGT) applications. Leading OEMs approve Castrol Perfecto turbine oils and they meet the latest industry standards.

Our Castrol range of **SPECIALITY** lubricants are engineered to protect and optimise productivity, these performance oils help to maintain equipment uptime and operational efficiency whilst reducing overall operating costs.

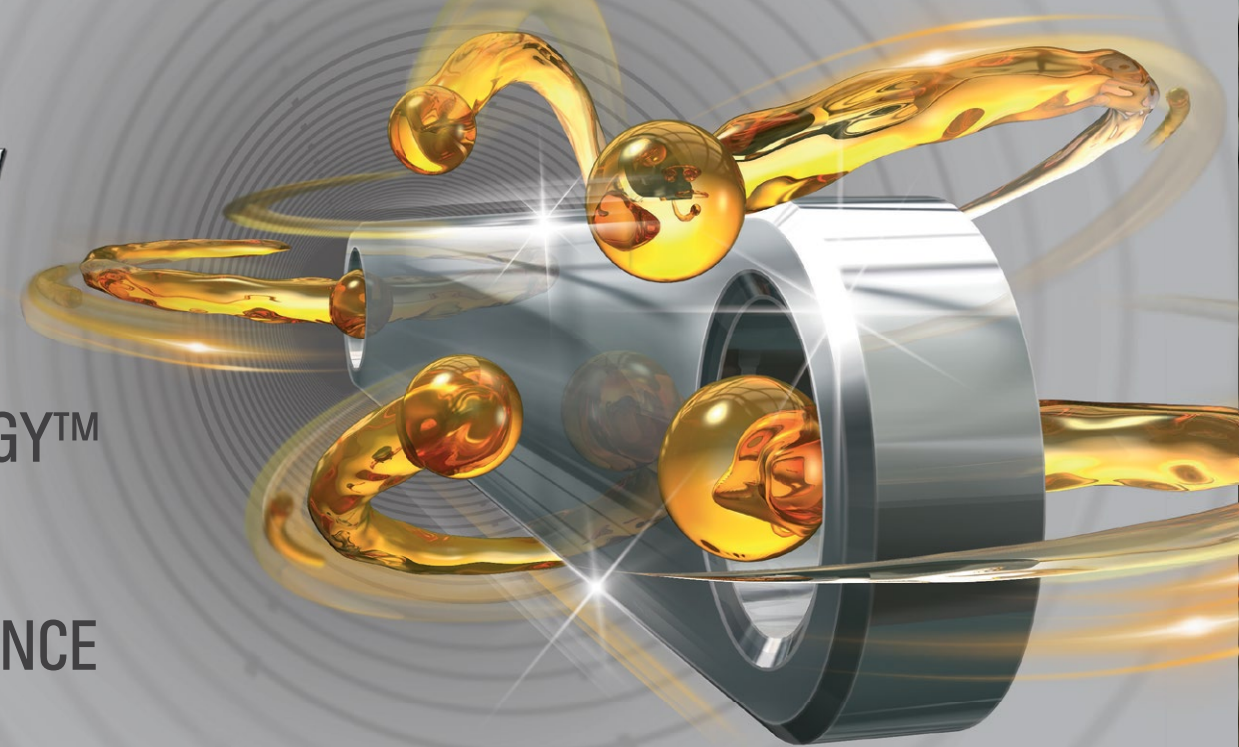
To complete your lubrication requirements we provide Castrol Speciality lubricants to cover many applications across your power plant including: **Gears, Hydraulics, Compressors, Transformers, Coolants** and **Greases**.

The Castrol range includes both mineral and synthetic products.

To find out more about product application and the **Full Castrol Range** please visit: [thelubricantoracle.castrol.com](http://thelubricantoracle.castrol.com)








SYSTEM 5  
TECHNOLOGY™  
DELIVERS  
INCREASED  
PERFORMANCE



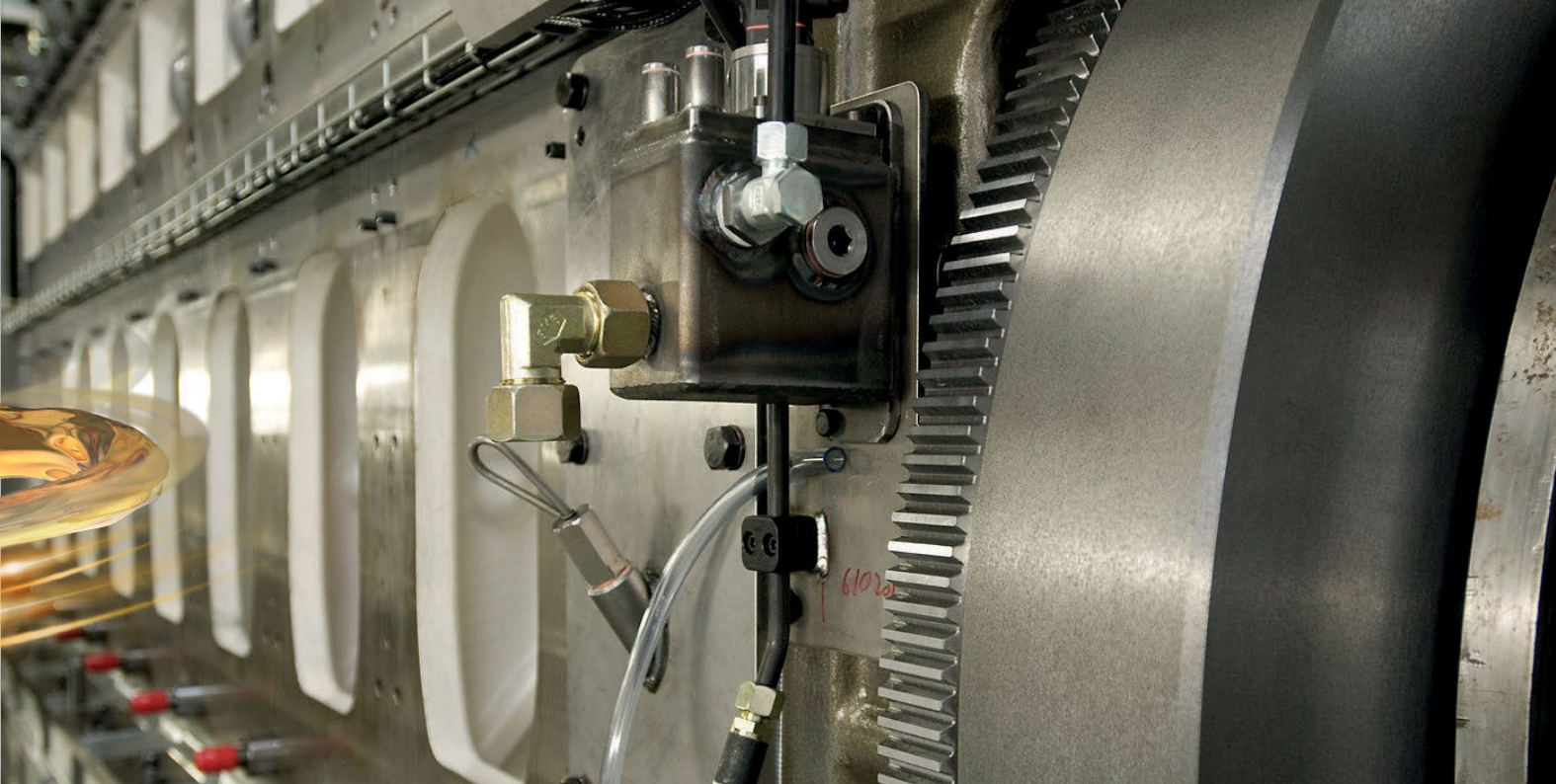
**YOUR OPERATING ENVIRONMENT** Power generation places huge demands upon engines, which are subject to wear and tear, build up of deposits on pistons and contaminants in the oil and oil thickening. All of these can effect the efficiency and performance of the oil.

**OUR SOLUTION** Castrol Vecton's unique System 5 Technology™ adapts to these conditions to help deliver performance in 5 key areas:

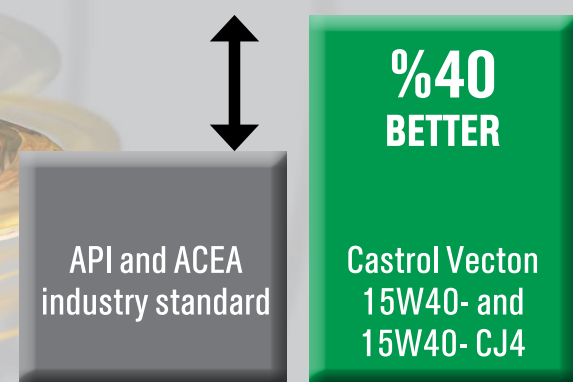
-  **Fuel consumption:** Fights oil thickening resulting in better fuel efficiency
-  **Oil Consumption:** Fights piston deposits, resulting in lower oil consumption.
-  **Oil Change Interval:** Fights contaminants, resulting in longer oil drain intervals.
-  **Component Life:** Fights wear and corrosion, enhancing the life of critical engine components.
-  **Power:** Fights soot, improving engine power all the way through to the oil drain.

**THIS HELPS** you maximise the value of your asset by delivering better fuel efficiency and improved engine power. You could also reduce operational costs through lower fuel consumption, longer oil drain intervals and extended component life intervals.





**AN ADVANCED ENGINE OIL FORMULATED WITH UNIQUE SYSTEM 5 TECHNOLOGY™ DELIVERING UP TO %40 BETTER PERFORMANCE<sup>1</sup>**



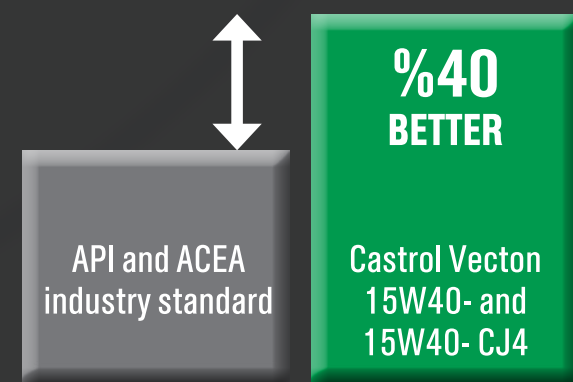
<sup>1</sup> IN INDEPENDENT LAB TESTS, CASTROL VECTON 15W40- AND 15W40- CJ4 PERFORMED UP TO %40 BETTER THAN API AND ACEA INDUSTRY STANDARD LIMITS ACROSS OIL THICKENING, PISTON DEPOSITS, SOOT HANDLING AND WEAR AND CORROSION.

**SPECIFICATIONS AND APPROVALS**

**Castrol Vecton 15W40-:** MB-Approval 228.3, MAN M 1-3275, Global DHD1-, Volvo VDS3-, Cummins CES 20076, CES 20077, CES 20078 Cat ECF2-. ACEA E7, API C14-.

**Castrol Vecton 15W40- CJ4:** Volvo VDS4-, Cat ECF3-, Deutz DQC III10- LA. ACEA E7/E9, API CJ4-, JASO DH2-.

**AN ADVANCED ENGINE OIL FORMULATED WITH UNIQUE SYSTEM 5 TECHNOLOGY™ DELIVERING UP TO %40 BETTER PERFORMANCE<sup>1</sup>**



**Castrol Vecton 15W40<sup>®</sup>** is suitable for a wide range of European, US and Japanese diesel engines.

**Castrol Vecton 15W40<sup>®</sup> CJ4<sup>®</sup>** is designed for the latest US, European and Japanese diesel engines with modern exhaust emission control systems, including DPFs.

<sup>1</sup> In independent lab tests, Castrol Vecton 15W40- and 15W40- CJ4 performed up to %40 better than API and ACEA industry standard limits across oil thickening, piston deposits, soot handling and wear and corrosion.

**CORE ADVANTAGES**

- Fuel consumption:** Fights oil thickening resulting in better fuel efficiency
- Oil Consumption:** Fights piston deposits, resulting in lower oil consumption
- Oil Drain Interval:** Fights contaminants, resulting in longer oil drain intervals
- Component Life:** Fights wear and corrosion, enhancing the life of critical engine components
- Power:** Fights soot, improving engine power all the way through to the oil drain.

**BENEFITS**

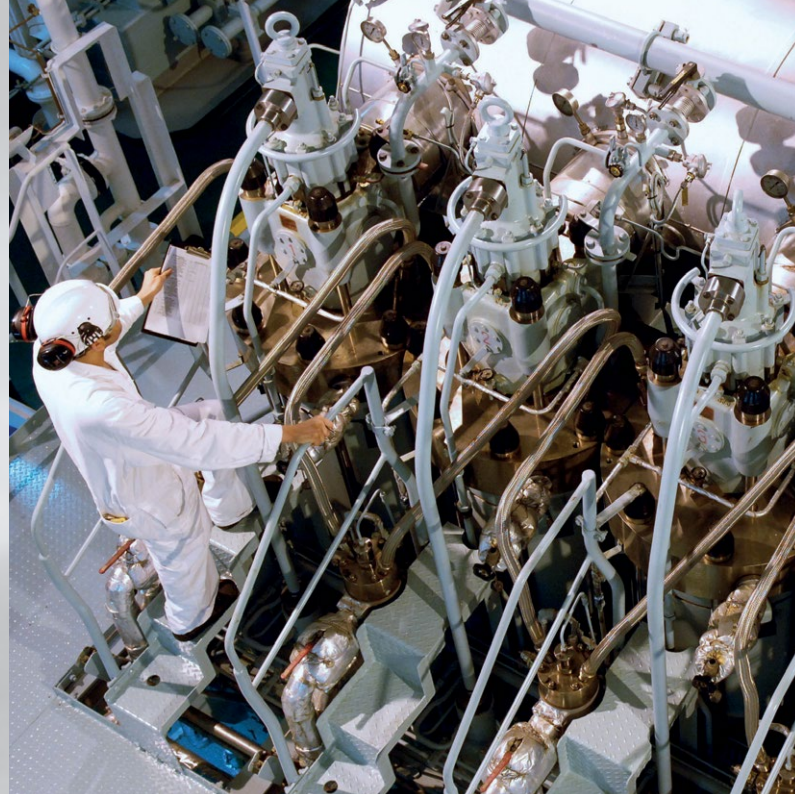
- Could reduce fuel costs
- Could reduce lubricant costs
- Could reduce downtime
- Could reduce unscheduled maintenance
- Could reduce operational costs

**SPECIFICATIONS AND APPROVALS**

**Castrol Vecton 15W40-:** MB-Approval 228.3, MAN M 1-3275, Global DHD1-, Volvo VDS3-, Cummins CES 20076, CES 20077, CES 20078 Cat ECF2-. ACEA E7, API C14-.

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## PROTECTION ACROSS VARYING FUEL QUALITIES

**YOUR OPERATING ENVIRONMENT** is tough which can compromise engine performance. Highly rated and efficient modern engines commonly operate with low oil consumption and small specific sump capacities. Fuel contamination is a common side effect of high pressure injection and **heavy fuel oils** may have variable sulphur content which can lead to engine problems.

**OUR SOLUTION** Castrol TLX Plus has excellent load handling, base number retention and deposit control performance helping to protect engines and **minimise downtime**. Castrol TLX Plus is available with 20, 40, 30 or 50 BN, and SAE 30 and 40 viscosity grades to suit differing fuel sulphur content and engine manufacturers requirements.

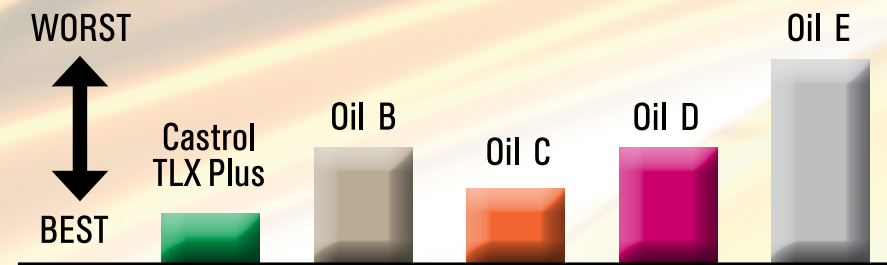
**THIS HELPS** to maintain **uptime** and maximise **operational efficiency**. Castrol TLX Plus protects against corrosion and deposits resulting in **cleaner engines** and less frequent overhauls, even where fuel quality cannot be guaranteed. Castrol TLX Plus technology provides resistance to the effects of thermal stress and its excellent base number protection enables extended drain intervals and **reduces lifetime costs**.

### APPROVALS

Castrol TLX Plus is approved by major engine manufacturers worldwide including: **Wartsila, MAN Diesel and Turbo, Deutz, Caterpillar, Rolls-Royce Bergen Engines, Yanmar, Daihatsu** and **HHI Himsen**.

### IN LABORATORY TESTS AND IN THE FIELD:

Castrol TLX Plus excels in the control of deposits and sludge. Deposit control performance in the presence of %6-3 fuel contamination surpasses all equivalent competitor oils.



### CORE ADVANTAGES

- Advanced additive technology and excellent balance of BN retention & deposit control performance.
- TLX Plus has excellent Base Number retention and viscosity control even with relatively low oil consumption and small sump capacities.
- Engine tests have shown that TLX Plus is superior with regard to piston cleanliness (lands and grooves) when compared to equivalent market oils.

### BENEFITS

- Helps to keep your engine clean, free from deposits and protected against corrosion.
- Excellent Base Number retention and viscosity control helps to promote longer oil life and reduce oil consumption.
- May also contribute significantly to savings on spare parts and labour costs.

### APPROVALS

Castrol TLX Plus is approved by major engine manufacturers worldwide including: **Wärtsilä, MAN Diesel and Turbo, Deutz, Caterpillar, Rolls-Royce Engines, Yanmar, Daihatsu** and **HHI Himsen**.

### MEETS THE REQUIREMENTS OF

Meets API CF specification (as tested with 20 BN variant).





Reduced downtime so less maintenance  
Reduced inventory levels

### DESCRIPTION

Castrol MHP is a high performance monograde engine oil formulated with **advanced detergency additives** to keep pistons and rings clean. It demonstrates **excellent wear protection** and **load carrying performance**. The load carrying capacity means it's an oil suitable for use in both engines and reduction gearboxes, enabling a **single oil** to be used without compromise.

### ENGINEERED FOR

**Castrol MHP 153** and **154** are suitable for use in medium to highly-rated marine trunk piston engines operating with distillate fuels\* and requiring API CF performance. Castrol MHP 153 and 154 have high load carrying capabilities and outstanding gear performance that enable them to be used as a common oil for both engine and transmission systems.

LOOK HOW ONE CASTROL USER BENEFITED FROM USING CASTROL MHP

**15,000 hours** inspection 'all major components in excellent condition.'

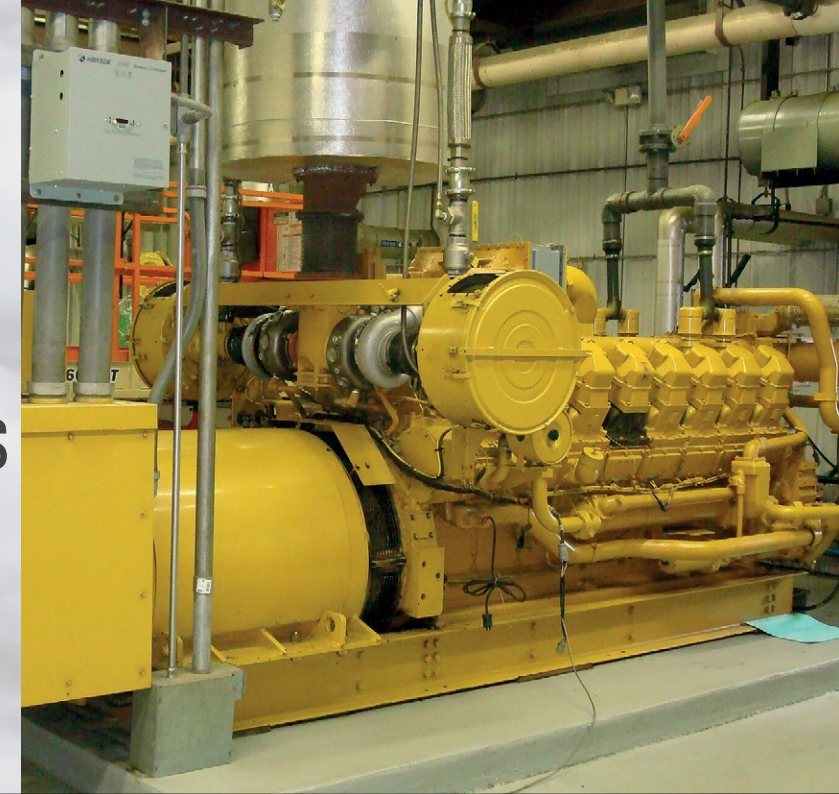
Oil change intervals extended from **2,500 to 3,000 hours**

**%25 reduction** in annual oil consumption

\*ISO 8217 type DMAADMZ/DMB/RMA10



EXCEPTIONAL RELIABILITY  
OUTSTANDING CLEANLINESS



### CORE ADVANTAGES

- Long lasting protection in the toughest operating conditions.
- Formulated with enhanced detergency, excellent thermal and oxidative stability.
- High load carrying capabilities and high gear performance that enables them to be used as a common oil for both engine and transmission systems.

### BENEFITS

- Potential to extend time between overhauls so reducing costs.
- Enhanced piston ring cleanliness.
- Offers the potential to simplify and reduce stock levels and optimise mitigate the risk of product misapplication.

### APPROVALS

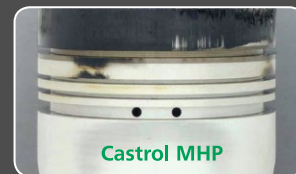
Wärtsilä, MAN Diesel, Deutz, Caterpillar, Rolls-Royce, Yanmar, Daihatsu and HHI Himsen.

### MEETS THE REQUIREMENTS OF

MHP153 and 154 meet the specifications of API CF

Cat 1M-PC test required for API CF, shows deposit results for Castrol MHP versus the standard API CD oil.\*

**%42** REDUCTION IN TOP GROOVE DEPOSITS  
**%58** REDUCTION IN SECOND GROOVE DEPOSITS



\*Compared to an API CD oil.

**YOUR OPERATING ENVIRONMENT** is often in remote and off-grid locations, so the power generated by your **gas engines** is critical. This means that you need high levels of efficiency, with minimal downtime, near-perfect reliability and minimal maintenance.

**OUR SOLUTION** Castrol Duratec L and Castrol Duratec M are quality gas engine oils formulated using carefully selected performance additives and high-quality base stocks providing high levels of thermal stability, low component wear and cleaner engine components.

**THIS HELPS** by maintaining **uptime** and increasing **operational reliability**. Castrol Duratec technology helps keep engines clean, reduce wear, extend component life and therefore reducing the risk of breakdown.

### APPROVALS

**Castrol Duratec L:** Approved by **Deutz, Jenbacher, Rolls-Royce** and **Wärtsilä**. Meets requirements of **Perkins, Ruston, Caterpillar** and **Waukesha**. **Castrol Duratec M:** Approved by **Perkins, Guascor** and **Jenbacher** – Series 2 and 3 gas engines: natural gas applications (TA1106-1000). **Duratec M** also meets the requirements of **Waukesha** (normal coolant temperature installations).