CASTROL'S world-renowned commercial vehicle engine oil, Castrol Vecton, delivers outstanding performance for every commercial and heavy duty vehicle.

Keep the Reference Guide handy as a reminder of how Castrol Vecton with System5 Technology™ helps fight five critical engine threats, and to help you choose the right oil for the right vehicle, every time.

*In independent laboratory test, Castrol Vecton performed up to 40% better than API and ACEA industry standard limits across thickening, piston deposits, soot handling and wear and corrosion.
**EXHAUST GAS RECIRCULATION (EGR)**

**WHAT IT DOES**
Mixes exhaust gas with intake air to lower combustion temperatures and as a result lower emissions.

**PROBLEM**
Increased soot formation and increased risk of engine wear.

**SOLUTION**
CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™, with its unique additive system, is up to 40% better at controlling soot build-up and reducing abrasive wear.

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**DIESEL PARTICULATE FILTER (DPF)**

**WHAT IT DOES**
Filter fitted to exhaust system to catch 90% of soot and ash particles before they reach the outside atmosphere.

**PROBLEM**
Ash build up blocks the filter, costly to replace.

**SOLUTION**
The Castrol Vecton range includes a number of Low SAPS oils.

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**SELECTIVE CATALYTIC REDUCTION (SCR)**

**WHAT IT DOES**
Sprays AdBlue into exhaust gases and converts harmful NOx to water vapour and nitrogen.

**PROBLEM**
Increased engine temperatures, higher stress on oil.

**SOLUTION**
CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ is up to 40% better at resisting wear and corrosion. It creates a strong oil film that shields engine parts from corrosion.
THE CHALLENGE
Soot damage. Oil thickening. Piston deposits. Contaminants. Engine wear and corrosion. All five of these engine problems can threaten the performance and efficiency of your vehicles – adding cost to your operations and damaging your reliability.

THE BREAKTHROUGH:
CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ is the only heavy duty vehicle oil purpose-designed to combat all five engine threats. Tests have shown Castrol Vecton is up to 40%* better at protecting your engine from harm – and protecting your performance and reliability.

*In independent laboratory test, Castrol Vecton performed up to 40% better than API and ACEA industry standard limits across oil thickening, piston deposits, soot handling and wear and corrosion.
**IMPROVE FUEL EFFICIENCY BY KEEPING OIL THICKENING AT BAY**

Engine oil can become thicker with age
- Thicker oil means more engine drag
- Engine works harder, fuel consumption increases

**MAXIMISE YOUR OIL PERFORMANCE BY FIGHTING CONTAMINANTS**

Contaminants from engines naturally build up in oil.
- Not all oils can handle it
- Means losing performance and protection
- Need to change oil more often

**CUT THE COSTS AND HASSLE OF OIL TOP-UPS BY FIGHTING PISTON DEPOSITS**

Some oils can allow deposits to build up around piston rings:
- Damages the seal
- Oil leaks up into combustion chamber, increasing oil consumption

**INCREASE COMPONENT LIFE BY FIGHTING ENGINE WEAR AND CORROSION**

Some oils are stronger than others.
- A weak oil film can leave engine parts vulnerable to corrosive attack
- Can allow metal-to-metal contact that wears and damages engine parts

**PROTECT YOUR ENGINE POWER BY FIGHTING SOOT DAMAGE**

Soot is the engine’s enemy.
- Build-up can break down protective oil layer and lead to abrasive wear
- When soot gets into the valve train, engine responsiveness and efficiency falls

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CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ - UP TO 40% BETTER AT FIGHTING OIL THICKENING

CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ - UP TO 40% BETTER AT HANDLING CONTAMINANTS

CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ - UP TO 40% BETTER AT RESISTING WEAR AND CORROSION

CASTROL VECTON WITH SYSTEM5 TECHNOLOGY™ - UP TO 40% BETTER AT CONTROLLING SOOT BUILD-UP
HELPING CUT YOUR FLEET’S FUEL COSTS
A fully synthetic Low SAPS engine oil specifically engineered for:
• better fuel economy in the latest Euro 6 Diesel engines
• use in low emission Euro 4 and 5 engines
• extended service intervals

EXTEND DRAIN INTERVALS WITHOUT COMPROMISING PROTECTION
A fully synthetic engine oil specifically engineered for:
• extended oil drain up to 100,000km*
• latest Euro 4 and Euro 5 engines, especially those requiring a Low SAPS lubricant
• Euro 4 (not requiring Low SAPS), Euro 3 and Euro 2 engines (10W-40 E7)

UP TO 40% BETTER PERFORMANCE THAN INDUSTRY STANDARDS
An advanced engine oil specifically engineered for:
• a wide range of European, US and Japanese engines
• latest European diesel engines with modern exhaust emission control systems including DPF
CASTROL SYNTRANS
MANUAL TRANSMISSION FLUIDS WITH SMOOTH DRIVE TECHNOLOGY™
- Reduces operating costs through fuel efficiency
- Lowers repair costs by extending component life

CASTROL TRANSMAX
AUTOMATIC TRANSMISSION FLUIDS WITH SMOOTH DRIVE TECHNOLOGY™
- Enhanced performance, eliminated noise and judder
- Reduces repair costs by extending component life

CASTROL SYNTRAX
AXLE FLUIDS WITH SMOOTH DRIVE TECHNOLOGY™
- Reduces operating costs through fuel efficiency
- Lowers repair costs by extending component life
**VECTON SPECIFICATIONS**

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- RLD-2
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- RLD-3
- RLD-3

**ScaNIA**
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- LDF-3
- CNG, VDS-4
- CES 20.081
- VDS-4

**VOLVO**
- VDS-4
- DH-2
- DH-2
- CES 20.081
- DH-2

**JAscO**
- DH-2
- ECF-3
- CES 20.081
- CES 20.081
- ECF-3

**CATERpillar**
- CES 20.081
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**CUMmins**
- CES 20.081
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- CES 20.081

**DEUTZ**
- DQC IV-10
- DQC II-10
- DQC IV-10LA
- DQC IV-10LA
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**RENAULT**
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- Low Ash
- VDS-4, CNG
- DH-2
- ECF-3
- DQC IV-LA 10

**SCANIA**
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- LDF-3
- VDS-3
- DQC III-10

**VOLVO**
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- CNG, VDS-4
- DH-2
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- CES 20.081
- DQC IV-10LA

**JASO**
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WHY BROUGHTON LUBRICANTS?

Broughton Lubricants are an established family run business set-up in 1920 by George Broughton. An impressive history, which spans almost 100 years, sets this company head and shoulders above the rest.

Always forward thinking and with an entrepreneurial spark, George identified the increased requirement for lubricating oil. He started blending and supplying lubricants, with a passion to produce products to the highest standard which would facilitate machinery and manufacturing processes.

It is with this passion and dedication that the business has thrived to where it is today. In the capable hands of Ian, George’s grandson, the company prides itself on supplying the best lubricating oil and greases available. No longer manufactured in house, but now a major UK Castrol Ambassador Distributor, Broughton Lubricants also offer a level of service and technical expertise surpassed by none.

A team of Specialists based across the UK, are ideally suited to address any technical queries or issues, as well as being available to make site visits when required. Coupled with this in-house knowledge, there is the back-up and support of BP and Castrol’s technical department, R&D and laboratory facilities.