

# Product data

## Tection Plus

### Product Description

**Castrol Tection Plus** is a mid ash SAE 15W-40 multigrade diesel engine oil, specially formulated to give optimum performance in the latest European Heavy Duty Diesel Engines, including Euro 3. It is approved for use by all major European heavy duty truck engine manufacturers including DAF, Iveco, MAN, Mercedes-Benz, Scania and Volvo. **Castrol Tection Plus** meets the tough standards of ACEA E5 and Volvo VDS-3 for wear protection, bore polish and oil consumption control. **Castrol Tection Plus** also has strong API CI-4 performance, and therefore will also give good performance in both US and Japanese heavy duty diesel engines.

### Product Application

Developed for the latest European Heavy Duty Diesel engines, including Euro 3, **Castrol Tection Plus** is designed to provide optimum bearing protection with reduced engine deposits and minimum risk of bore polishing. **Castrol Tection Plus** is our prime recommendation for European (DAF, Iveco, MAN, Mercedes-Benz, Scania and Volvo) engines. It is also suitable for certain Japanese (Daihatsu, Hino turbocharged, Isuzu, Mitsubishi Truck, Nissan and UD) engines, and also most US engines, including Caterpillar, Cummins, Detroit 4 cycle and Mack.

### Long Term Engine Durability

**Castrol Tection Plus** offers a high level of long term protection including:

- Protection from piston ring wear
- Control over piston, piston ring combustion chamber deposits
- Bearing corrosion protection
- Alkaline reserve, which assists in neutralising the problems caused by high sulphur-containing distillates (refer to engine manufacturers oil drain intervals for varying levels of sulphur in automotive distillate)
- Oil consumption control



**B1620/03, replaces none**

- Performance in a single oil for all European diesel engines and most other diesel engines
- Quality approval against the latest European diesel engine manufacturers and industry specifications

### **Controlling Soot Related Thickening**

Emission control requirements around the world have required changes to diesel engine tune up settings and combustion chamber design. A number of these changes have resulted in more soot finding its way into the crankcase oil in normal service.

The result being that soot handling performance has become more important in European as well as US heavy duty diesel engines.

The latest **Castrol Tecton Plus** formulation has very good soot handling performance. The advantage in performance has been demonstrated in the field in Australia and New Zealand in European heavy duty diesels. Results show significantly reduced oil thickening and reduced engine wear. Together these characteristics combine to provide improved engine life, cleaner engine internally and longer effective service intervals.

These advantages will be useful in both current specification engines as well as earlier generation engines.

### **Product Performance Level**

This advanced lubricant should be used where the following requirements are cited:

European ACEA:	E3, E5 & B3
API Service Classification:	CI-4 (also CH-4, CG-4, CF-4)
US Military:	MIL-L-2104E, MIL-L-56152B
MACK:	EO-M Plus
Mercedes-Benz:	Sheet 228.3 (OM 364 A)
Volvo:	VDS-2, VDS-3
MAN:	M3275
MTU:	Meets MTU Type 2 performance
Hino:	Turbocharged engines
Cummins:	CES 20071, 20072, 20076, 20077, 20078
Global	DHD-1

N.B: For optimum performance in Mitsubishi and Hino engines, Castrol recommend the use of Castrol J-Max.

For optimum performance in US linehaul engines (Caterpillar, Cummins, Detroit and Mack) Castrol recommend the use of Castrol RX Super or Castrol Enduron S.

**Note: Castrol Tecton Plus is not recommended for petrol or gas engine applications**

**Transmission Applications**

Allison C4 (SAE 30) performance (not for Allison WT Series, use either Castrol Transynd, TQ Dexron III or Transmax Z)

For technical assistance on engine makes not shown or mixed fleet operations, contact the Castrol Technical Helpline 1300 557998.

**TYPICAL CHARACTERISTICS**

SAE Grade	KV @ 40°C (cSt)	KV @ 100°C (cSt)	CCS @ -20°C (cP)	Pour Point (°C)	Closed Flash Point (°C)	Sulfated Ash % Mass	TBN mg KOH/g	Diesel Rating
15W-40	102	14.4	7000 max	-27	198	1.4%	10.6	ACEA E3/E5/B3 API CI-4

The above data is typical and does not constitute a specification

**Health, Safety and Environment**

**Castrol Tecton Plus** is considered non hazardous according to Worksafe. However, in line with safe standards handling practices it is recommended that the handling instructions outlined in the Castrol Material Safety Data Sheet be followed.

**Spillage**

- Small:** Soak up using an inert mineral absorbent such as Castrol MOP and dispose of in the appropriate manner.
- Large:** Corrective action usually dictated by individual company safety procedures.  
Immediate containment and subsequent removal is essential.
- Disposal:** Oily materials must not be allowed to enter ground water, water courses, sewerage or drainage systems. Refer to local Waste Disposal Authority for legal requirements.

## **Product Removal**

**Bare Metal Surfaces:** Remove with Castrol solvent cleaners or water based degreasers.

**Hand Cleaning:** Use any of the Castrol range of hand cleaners, e.g. CareClean Lime.

**Other Surfaces:** Contact your local Non-Oil Products Division in each State Office.

Although all reasonable care has been taken to ensure that the information in this publication is accurate as at the time of printing, such information is nevertheless liable to variation in the event of changes occurring subsequent to the date of printing in: the blend of formulation, methods of storage, or due to the improper handling or application of any of the products referred to, or in the requirements of any specification or approval relating to any of the products.

### **For more information contact: Castrol Australia Pty Ltd**

Technical Advice Line: 1300 557 998

Customer Service: 1300 554 890

[www.castrol.com.au](http://www.castrol.com.au)

Sydney	(02) 97954800	Fax: (02) 97954815
Melbourne:	(03) 92684200	Fax: (03) 92683915
Brisbane:	(07) 38509300	Fax: (07) 38509399
Adelaide:	(08) 83476200	Fax: (08) 84491800
Perth:	(08) 92689288	Fax: (08) 92689235