



## Vanellus Multi-Fleet ECO 15W-40

Low SAPS multigrade diesel engine oil

### Product Data

#### Description

**Vanellus Multi-Fleet ECO 15W-40** is an SAE 15W-40 Low SAP's technology multigrade diesel engine oil. This particular diesel engine oil has been specially formulated to help offer the benefits of maximising the life of exhaust after treatment devices, such devices include diesel particulate filters, DPF/DPD. In addition, **Vanellus Multi-Fleet ECO 15W-40** has been designed to offer extended oil drain intervals compared to API CI-4, CI-4 Plus and VDS-3 type diesel engine oils.\*

With the ever increasing emission controls imposed on heavy duty diesel engines **Vanellus Multi-Fleet ECO 15W-40** is formulated to improve engine durability with diesel engines fitted with EGR (Exhaust Gas recirculation) with much of the benefits experienced in very severe operating conditions e.g. high loads/speeds and multi-trailer on highway driving conditions

**Vanellus Multi-Fleet ECO 15W-40** has been introduced to provide enhanced operational and technical performance, engine durability and minimise oil consumption in engines equipped with EGR and/or DPF/DPD.

**Vanellus Multi-Fleet ECO 15W-40** will give fleet managers and, transport operators, looking to extend diesel engine oil life and at the same time assist in decreasing engine wear, the opportunity to do so.

**\*Note:** Any extended drain interval programme should be undertaken in conjunction with BP Technical Services who should be used to advise on the methodology of oil sampling frequency and interpretation of oil analysis results. Where applicable, the service requirements of the relevant engine OEM should be acknowledged in any programme

#### Applications

**Vanellus Multi-Fleet ECO 15W-40** is recommended for most highly loaded, heavy duty, four stroke diesel engines from US, European and Japanese manufacturers, to ADR 80/30 and earlier specifications. In addition, the product is recommended where low ash oils are recommended or preferred by the engine OEM.

**Vanellus Multi-Fleet ECO 15W-40** suits most applications where Diesel Particulate Filters, (DPF), Diesel Particulate Diffusers (DPD), or similar devices are fitted



## Benefits

Product Feature	Operational Advantage	Customer Benefit
Formulation based on years of field experience in Australia.	Formulation tailored to cope with high load Australian conditions.	Increased engine durability.
Uses Ultra Refined base oils	Exceptional soot handling, soot related wear control and oxidation resistance	Longer oil drains, less engine wear and less sludge. Minimises oil consumption
Superior viscosity stability.	Oil can handle more soot without excessive thickening.	Extra margin of safety against soot related wear.
Improved soot related wear protection.	Better protection of fine tolerance components.	Increased engine durability.
Exceptional piston deposit control.	Reduced possibility of bore polishing.	Minimises oil consumption.
High shear stable polymer (Viscosity Modifier).	Maintains new viscosity throughout service interval – “stay in grade” performance.	Improves engine protection, extended engine life. Minimises oil consumption
Formulated with lower levels of Sulphated Ash, Phosphorous and Sulphur than conventional oils	Maintains the efficiency of exhaust after treatment systems, eg, DPF or DPD.	Ensures continuing compliance with emissions legislation and reduces maintenance costs of emission systems

## Specifications

**Vanellus Multi-Fleet ECO 15W-40** is recommended where these superseded or current specifications or performance levels are cited:

<b>API Diesel/Petrol Rating:</b>	CJ-4, CI-4, CI-4 Plus
<b>SAE:</b>	15W-40
<b>ACEA:</b>	E9
<b>Volvo:</b>	VDS-4 Approved
<b>Mack:</b>	EO-O Premium Plus (also suitable for EO-N Premium Plus)
<b>Cummins:</b>	CES 20081
<b>Detroit:</b>	DDC Power Guard 93K218
<b>Caterpillar:</b>	ECF-3
<b>JASO:</b>	DH-2
<b>Mercedes Benz:</b>	MB-Approval 228.31



## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

## Health & Safety Recommendations

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet, which can be obtained by contacting the BP Lubricants and Fuels Technical Helpline on 1300 139 700, BP Australia or its subsidiaries. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. BP Australia will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office or BP Lubricants and Fuels Technical Helpline 1300 139 700.

## Typical characteristics

Test	Method	Unit	Typical Value
SAE Viscosity Grade		Kg/L	15W-40
KV @ 40 °C	ASTM D445	cSt	113
KV @ 100 °C	ASTM D445	cSt	14.7
CCS @ -20 °C (cP)	ASTM D5293	cP	6450
Viscosity Index	ASTM D2270	-	133
Pour Point	ASTM D97	°C	-36
Flash Point, COC	ASTM D92	°C	207
Sulphated Ash	ASTM D874	%mass	1.0
TBN	ASTM D2896	mg KOH/g	8.6

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

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