



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

Petrolad[®] 339

Premium, Multi-Purpose Gear Oil Additive Package

BRB Lube oil Additives & Chemicals

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Product Description



Petrolad® 339 is a modern, robust, multi-purpose gear oil additive package, suitable for use in industrial and automotive applications and compatible with a wide range of mineral/synthetic base stocks. Petrolad® 339 claimed at GL-5 with a 4,00 % w/w dosage in a mineral oil simultaneously meets GL-4. The product covers key gear oil needs at economical treat rates and often exceeds globally relevant specifications, e.g., DIN 51517-3, as seen below.

Benefits

- Outstanding corrosion/oxidation inhibition and a lower automotive coast side scoring under high-speed and shock loading conditions, as per ASTM D7450.
- Passes the Flender foaming tests in a mineral oil based formulations.
- Excellent clean gear characteristics, such as water separability and oxidation stability for preventing costly industrial gearbox contamination.
- Superior gear extreme pressure (EP) performance at competitive treat rates.
- Flexibility and savings for producers of both automotive and industrial gear oils in different base stocks.
- A low-odour solution, not classified as Dangerous Goods, therefore easier handling and storage.



Gear 1, 6 & 12 after load stage 10 (FVA 54 VII)



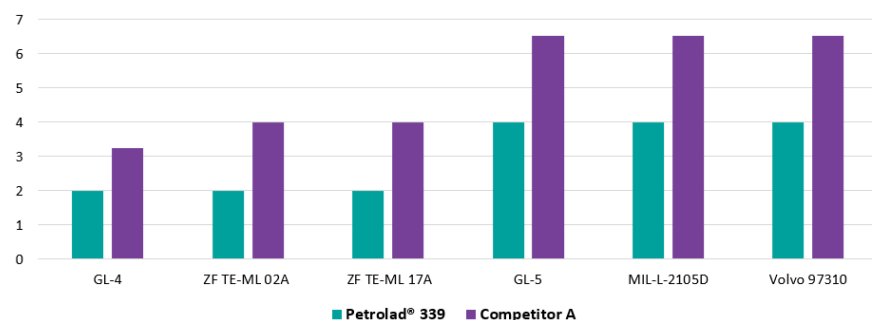
Low visible bearing roller & cage wear (FAG FE-8)

Performance

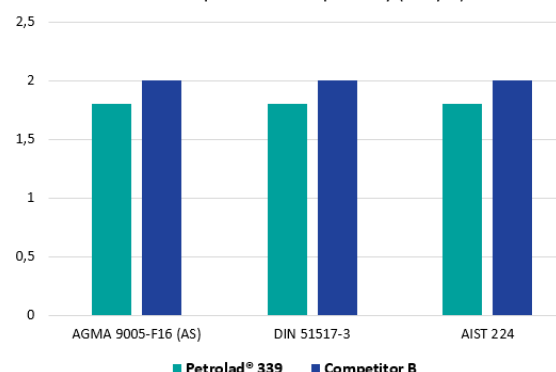
Automotive Specification	Dosage % w/w
GL-4	2,00
MIL-L-2105	2,00
ZF TE-ML 02A	2,00
ZF TE-ML 06L	2,00
ZF TE-ML 08*	2,00–4,00
ZF TE-ML 17A	2,00
GL-5	4,00
MIL-L-2105D	4,00
ASTM D7450	4,00
Volvo 97310	4,00
MAN 342N	4,00
Industrial Specification	Dosage % w/w
AGMA 9005-F16 (AS)	1,80
DIN 51517-3**	1,80
ZF TE-ML 04F	1,80
AIST 224	1,80

*Dosage varies, depending on the viscosity grade.
 **Performance specifically assessed as per ASTM D5182, D130, D2893-A, D1401, D892, D665 & DIN 51819-3.

Automotive Specification Superiority (% w/w)



Industrial Specification Superiority (% w/w)



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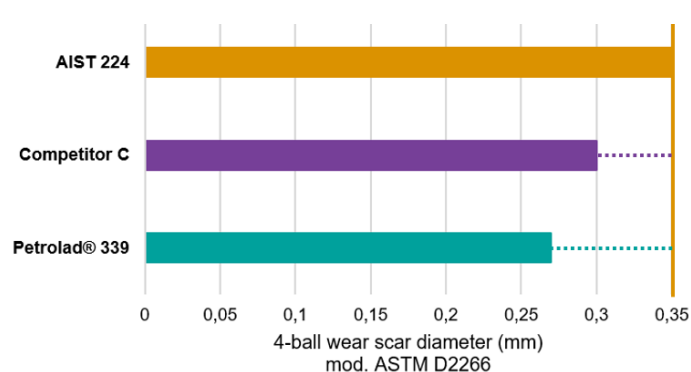
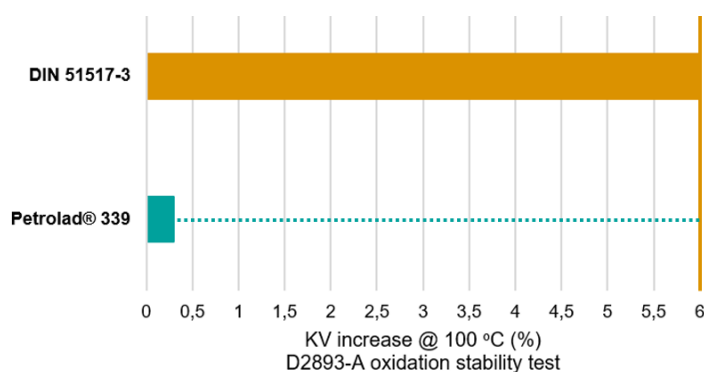


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We Recommend	Petrolad® 339	Competitor B
Flender AS 7300 Rev.16*	1,80 % w/w	2,00 % w/w
GB 5903-2011 L-CKD**	1,80 % w/w	2,00 % w/w (L-CKC)

*Based on results Flender foam and FVA 54 VII.

**SH/T 0200/IP351-81 and GB/T 511 (GOST 6370) tests: To be conducted.



Typical Data

Parameter	Unit	Method	Typical
Appearance	-	Visual	Bright & clear, orange liquid
Density @ 15°C	g/cm ³	ASTM D4052	1,006
Kinematic viscosity @ 40°C	cSt	ASTM D445	53,6
Flash point	°C	ASTM D93	100
Sulphur content	% w/w	IH TM ¹	26,9
Phosphorus content	% w/w	IH TM ¹	0,97

¹ICP or XRF.

Handling & Storage

Minimum loading/unloading/pumping temperature	20 °C
Maximum loading/unloading/pumping temperature	50 °C
Maximum blending temperature	50 °C
Maximum storage temperature	25 °C
Maximum long term* storage temperature	25 °C

*Longer than 2 months.

The abovementioned properties are typical and should not be used as quality control parameters to accept or reject the product. An MSDS is available on request.

FOR MORE INFORMATION

Please contact

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IMPORTANT NOTICE

The information given in this product data sheet are believed to be fully accurate. However, BRB International BV shall not be liable for its content and make no warranty with respect thereto. For additional information we request you to contact BRB International BV. Visit our web-site: www.brb-international.com

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