



A Subsidiary of PETRONAS Chemicals Group

PRODUCT DATA SHEET

Petrolad[®] 1846

Multi-Purpose, Ashless Hydraulic Oil
Additive Package

BRB Lube oil Additives & Chemicals

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Product Description



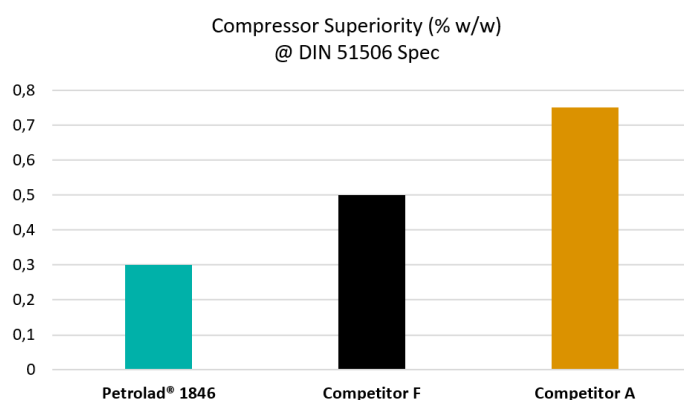
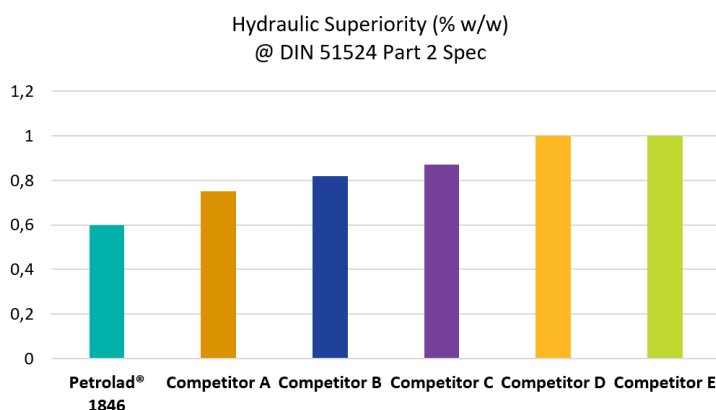
Petrolad® 1846 is especially designed to formulate zinc-less hydraulic fluids based on mineral oils, as well as PAO/ ester oils. It is also suitable for compressor, turbine, R&O and industrial gear oils, along with greases. In this way, the package taps into aspects of several key industrial applications.

Benefits

- Great anti-wear (AW) results, addressing a key concern for ashless packages.
- Minimized hydraulic system contamination – the cause of most issues in hydraulic oils, e.g., in the steel industry.
- Significant cost savings and reduced supply-/application-level environmental impact due to its low treat rate, lack of zinc and multi-purpose nature, providing convenience to versatile lubricant blenders.
- Good steel and copper corrosion protection, along with oxidation stability.
- Excellent filterability, water separability (demulsification) and hydrolytic stability.
- Extended fluid and equipment life in applications with high-performance requirements.

Performance

Hydraulic Specifications	Dosage % w/w
DIN 51524 Part 1 (R&O)	0,3
AFNOR NF E 48-603	0,3
Cincinnati Milacron (MAG IAS) P38, P54, P55, P57 & P62	0,3
MIL-L-17672 D	0,3
Denison HF-0	0,5
DIN 51524 Part 2 (HLP, AW)	0,6
DIN 51524 Part 3 (HVLP)	0,6
VDMA 24568	1,6
Turbine Specifications	Dosage % w/w
AIST 120	0,3
BS 489	0,3
GE GEK 32568 A/C	0,3
CEGB 207001	0,3
Mitsubishi Heavy Industries E00-87182	0,3
TLV 9013	0,3
DIN 51515 Part 1	0,3
DIN 51515 Part 2	0,6
Compressor Specifications	Dosage % w/w
DP 6521 (DAA, DAB, DAH, DAG)	0,3
DIN 51506 (VBL, VCL, VDL)	0,3
BB HTGD 90117	0,3
Gear Specifications	Dosage % w/w
DIN 51517 Part 2	0,3



Note: Choosing the appropriate base oil quantity and type makes it possible to formulate a biodegradable hydraulic oil with our ashless Petrolad® 1846, irrespective of specification. To simultaneously blend such an oil and reach a desired performance, refer to the above dosages.

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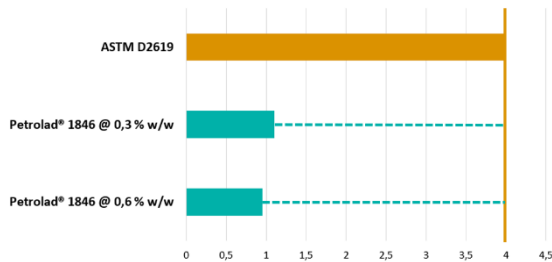
Petrolad® 1846

Multi-Purpose, Ashless Hydraulic Oil Additive Package

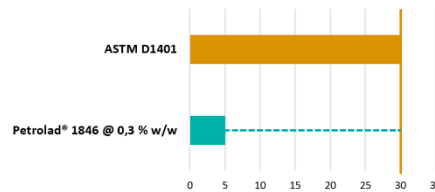


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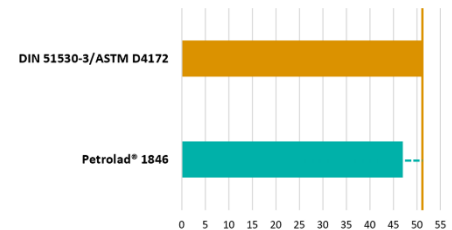
Hydrolytic Stability: Acidity of Water Layer (mg KOH/25g),
GR III BO, ISO VG 32



Water Separability: Time to 38 ml Water
(minutes), GR III BO, ISO VG 32



4-Ball Wear Scar Diameter (mm)



Typical Data

Parameter	Unit	Method	Typical
Appearance	-	Visual	Clear, orange liquid
Density @ 15 °C	g/cm ³	ASTM D4052	0,96
Kinematic viscosity @ 40 °C	cSt	ASTM D445	110
Phosphorus content	% w/w	IH TM	0,83
Sulphur content	% w/w	IH TM	7,20
Flash point	°C	ASTM D93	120

Handling & Storage

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

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

FOR MORE INFORMATION

Please contact

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IMPORTANT NOTICE

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