



ENZED® Parker Hannifin (Australia) Pty Limited ABN 89 008 446 893

Lot 9 Chapple Street, Wodonga Victoria 3690

ENZED® Parker Hannifin (New Zealand) Pty Limited ABN 89 008 446 893

No 5 Bowen Road, Mt Wellington N.Z 1060

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PRODUCT DATA SHEET

Bio Hydraulic S Type 46-68

PRODUCT DESCRIPTION

Bio Hydraulic S Type 46-68 are biodegradable hydraulic lubricants containing synthetic fatty esters, stabilizers, anti-wear additives, corrosion inhibitors and foam inhibitors. They are biodegradable according to OECD 301B and meet the HEES requirements. **Bio Hydraulic S Type 46-68** do not contain mineral lubricating oils, they are based on high quality synthetic fatty esters derived from Australian harvested vegetable oils, which in comparison with mineral oil based lubricants, are more easily biodegraded, less hazardous and more suitable for use in environmentally sensitive areas. They are much less likely to cause any harm to soil, waterways or other parts of the environment than mineral oil based lubricants.

Bio Hydraulic S Type 46-68 were developed to meet and exceed the current requirements of the agricultural, forestry, heavy engineering, construction and marine equipment industries. They can be used in mobile or stationary equipment such as forklifts, cranes, tractors, graders, bulldozers, hoists, marine equipment, mining equipment, ski lifts etc. and are particularly suited for use in environmentally sensitive areas such as, National or State parks, near or on waterways, recreational areas, road, rail and tramways, local government maintenance vehicles, water, electricity, telecommunication and gas service providers' vehicles.

BENEFITS

Bio Hydraulic S Type 46-68 display excellent viscosity - temperature characteristics due to the high naturally inherent viscosity indices of the vegetable oil based synthetic esters. Their optimum service range is from -10°C to 100°C. Compared with mineral oil based lubricants **Bio Hydraulic S Type 46-68** are safer for users and the environment, more easily biodegradable, lower in toxicity and free from heavy metals. They have enhanced performance characteristics, are less changeable in viscosity as operating temperatures increase due to higher viscosity index and have higher lubricity resulting in lower equipment operating temperatures

Bio Hydraulic S Type 46-68 are fully miscible and compatible with mineral oils, therefore, changing to **Bio Hydraulic S Type 46-68** is simple as no prior system flushing is required.

Bio Hydraulic S Type 46-68 contain ester components which may be incompatible with certain elastomers used as seals, hoses or other components in the customer's equipment. Prior to full scale commercial use it is recommended that compatibility with system components is determined by the customer. For further advice contact your local reseller or supplier.

Avoid contamination with water. Where possible drying equipment should be used and water drained after any shutdown period. ENZED suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.





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PHYSICAL PROPERTIES

Specification	Units	ASTM Method	ISO 46	ISO 68
ISO Viscosity	-	-	46	68
Product Code			2916	2921
Appearance	-	Visual	Clear yellow liquid	
Odour	-	-	Bland fatty	
Density @ 15°C	kg/L	ASTM D4052	0.92	
Kinematic Viscosity @ 40°C	mm ² /s	ASTM D445	46	68
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	9.0	12.5
Viscosity Index	-	ASTM D2270	180	185
Pour Point	°C	ASTM D97	-15	
Flash Point Open Cup	°C	ASTM D92	>150	
Corrosiveness to Copper	-	ASTM D130	1a	
Rust Preventing Characteristics	-	ASTM D665	Pass A & B	
Sulphated Ash	%m/m	ASTM D874	0.01	
Water Content	%v/m	ASTM D95	<0.1	

Available in: 1000 Litres, 200 Litres and 20 Litres

Product Code: EZ5-2916 and 2921

“The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided for in written contract, the product is sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular use. “

Effective: August 2015

Expires: August 2017

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