



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
PHONE: 13 13 62 (AU) | 0800 4 enzed (NZ) | www.enzed.com.au | www.enzed.co.nz

PRODUCT DATA SHEET

Bio Hydraulic V Type 46-68

PRODUCT DESCRIPTION

Bio Hydraulic V Type 46-68 are biodegradable ISO grade hydraulic lubricants containing vegetable oil based esters and high performance additive packages. They are designed to meet the requirements of ISO 15380:2002, are classified under ISO 6743-4 as Type HETG and are biodegradable according to OECD 301B. **Bio Hydraulic V Type 46-68** do not contain mineral lubricating oils, they are based on high quality vegetable oil esters, 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 V 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 V Type 46-68 display excellent viscosity and temperature characteristics due to the high inherent viscosity index of vegetable oil esters. Their optimum service range is from -10°C to 65°C. Compared with mineral oil based lubricants **Bio Hydraulic V Type 46-68** are safer for users and the environment, more easily biodegraded, have a lower toxicity and are 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 V Type 46-68 are fully miscible and compatible with mineral oils therefore, changing to **Bio Hydraulic V Type 46-68** is simple as no prior system flushing is required.

Bio Hydraulic V Type 46-68 contain ester components which may be incompatible with certain elastomers used as seals, hoses or other components. Prior to full scale commercial use it is recommended that compatibility with system components is determined by the user. 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.





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
PHONE: 13 13 62 (AU) | 0800 4 enzed (NZ) | www.enzed.com.au | www.enzed.co.nz

PRODUCT DATA SHEET

PHYSICAL PROPERTIES

Specification	Units	ASTM Method	ISO 46	ISO 68
ISO Viscosity	-	-	46	68
Product Code	-	-	2917	2922
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	9.9	13.2
Viscosity Index	-	ASTM D2270	210	200
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, 200Litres and 20Litres

Product Code: EZ5-2917 and 2922

"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

MR518070/1

Blended under licence for ENZED by Hi-Tec Oils Pty Ltd.

