

HYDRAULIC OILS 46 AND 68

PRODUCT DESCRIPTION

Bonney Energy Hydraulic Oils are blended from high quality mineral oils possessing a high viscosity index and low pour point. These oils give a long trouble free service life and will be chemically stable under severe operating conditions. **Bonney Energy Hydraulic Oils** will give excellent protection against corrosion, resist emulsification and resist any formation of unwanted stable foam.

The continuing trend towards higher hydraulic system pressure permits higher performance and reductions in pump and equipment sizes. At the same time, the hard working hydraulic oils are called upon to lubricate, seal and cool the working components under increasing temperature, turbulence and pressure. Any entrained air must be readily released as pressures often exceed 7 mpa (1000 psi) and heavy pump damage can only be avoided by using oils containing anti-wear additives.

Bonney Energy Hydraulic Oils are formulated to meet all these requirements, using paraffinic, high viscosity index Group II mineral oil, augmented with performance additives including a zinc anti-wear package.

BENEFITS

The performance benefits of **Bonney Energy Hydraulic Oils** include:

- Superior hydrolytic stability
- Outstanding thermal and oxidation stability
- Good demulsibility and anti-foam properties
- Excellent EP performance
- Excellent rust protection
- Lower tendency to block filters
- Reduced pump wear

Oxidation, wear and corrosion tests established by Denison and Vickers are amongst the most severe in the industry and are widely recognised by other equipment manufacturers.

SPECIFICATIONS

Bonney Energy Hydraulic Oils meet or exceed the requirements of many international tests and specifications for industrial and mobile hydraulic systems including:

Vickers I-286-S, M-2950-S

AFNOR NFE 48-603 HM (now ISO 11158 HM)

Hagglunds-Denison HF-0, HF-1, HF-2

Fives Cincinnatti P-68, P-69, P-70 (was Cincinatti Milacron)

DIN 51524, Part 2 HLP

US Steel 126, 127, 136

Racine, variable volume vane pumps

Commercial Hydraulics

ASTM D 6158

ISO 6743/4 (HM)

AFNOR NFE 48-691 (wet)

ISO 11158 HM

SS155434

SEB 181 222

VDMA 24318

Eaton Brochure 03-401-2010

Bonney suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.

TYPICAL PROPERTIES

Property	ASTM Method	Typical Results	
		46	68
ISO Viscosity			
Appearance	Visual	Clear, bright	Clear, bright
Density @ 15°C (kg/L)	D-1298	0.865	0.871
Viscosity (cSt) @ 40°C	D-445	46	68
Viscosity Index	D-2270	100	100
Flash Point (°C)	D-92	>200	>200
Pour Point (°C)	D-97	-27	-30

Available in: 200 Litres and 20 Litres

“Bonney Energy has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at <https://www.bonneyenergy.com.au>. Bonney energy takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at <https://www.bonneyenergy.com.au/>”

Effective: February 2023

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Property	80W/90
Product Code (BE-)	8090
Appearance	Natural
Density (kg/Lt) @ 15°C	0.889
Viscosity (cSt) @ 40°C	156
@ 100°C	15.8
Viscosity Index	104
Pour Point (°C)	-33
Copper Strip Corrosion - 3 hrs @ 100°C	1b
Flash Point; COC (°C)	250
Carbon Residue, Conradson (%)	0.39
Foaming characteristics -	
Sequence I, After Settling	Nil
Sequence II, After Settling	Nil
Sequence III, After Settling	Nil
Thermal Oxidation Stability (CRC L60)	Pass
Phosphorus (% wt)	0.054

Available in: 200 Litres

Effective: September 2022

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