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An ISO9001 Certified Company
 PD PHC40PG
 REV. # 3
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PHC40PG PERMAGEL
HYDRO-CRACKED LUBRICANT FOR SINTERED METAL BEARINGS

DESCRIPTION

PERMAWICK HYDRO-CRACKED (PHC) 40 OIL is formulated from a blend of specialty Hydro-treated paraffinic base stocks along with premium additives that provide improved protection against oxidation, corrosion and wear. The hydro-treating process produces high purity base oils that are able to surpass the performance of traditional solvent refined mineral based oils.

PHC40 oil and the PermaWick products made from it, maximizes FHP electric motor bearing life under a wide variety of conditions providing a new standard of excellence in performance. In many cases it allows this oil to be used in place of more costly synthetics.

PRODUCT FEATURES

- Extremely long life
- Low volatility
- Enhanced anti-wear protection
- Low pour point and naturally high viscosity index
- Superior protection against oxidation
- Useful temperature range: -40°C to 60°C

Performance Test: Permugel

| | <u>ASTM Method</u> | <u>Typicals</u> |
|--------------------------------|---------------------------|----------------------------|
| Base Oil | | PHC40 |
| Penetration (60 strokes, 25°C) | D217 | NLGI #2-3 |
| Color | Visual | Whitish to Straw Yellowish |
| Drop Point | D566 | Without |
| Density | D1298 | 0.93 |
| Copper Strip Corrosion @ 100°C | D4048 | 1b |
| Pounds/Gallon | | 7.89 |
| Structure | | Homogenous |

Performance Test: Base Oil

| | <u>ASTM Method</u> | <u>Typicals</u> |
|-------------------------------|---------------------------|------------------------|
| Specific Gravity | D1298 | 0.820 |
| Color | D1500 | 0.5 |
| Flash Point, °C | D92 | 200 |
| Pour Point, °C | D97 | -52 |
| Viscosity, cSt. 40°C | D445 | 24 |
| 100°C | | 2.38 |
| Viscosity Index | D2270 | 127.3 |
| Neutralization No., mg KOH/gm | D664 | 1.0 |
| Copper Strip Corrosion | | |
| 3 hours @ 150°C | D130 | 1 |
| Rust Test, distilled water | D665A | Pass |
| Rust Protection, sea water | D665B | Pass |
| Density lbs, gal | Conversion | 6.84 |

The World Leader in Fractional Horsepower Motor Lubrication