

MATSUMURA OIL CO., LTD. H02001001C(E)

BARREL HYDRAULIC OIL NZ-A Series

(High flash point wear resistant hydraulic oils)

BARREL HYDRAULIC OIL NZ-A series are non-sludge type high flash point wear resistant hydraulic oil that achieves excellent energy saving performance by blending a highly refined high flash point base oil with a new non-Zn extreme pressure agent and friction modifier. Ideal for use in applications that are operated under harsh conditions, such as stamping machines and injection molding machines.

1. Features

- (1) Due to its high viscosity index, it can be used in a wide range of temperatures.
- (2) By adopting non-Zn additive, high thermal stability and oxidation stability, and can be used stably for a long period of time.
- (3) Excellent lubricity and wear resistance.
- (4) Excellent rust prevention, water separability, and oil properties.

| Property | | BARREL HYDRAULIC OIL | | |
|---|----------------------|----------------------|-------------|-------------|
| | | NZ-32A | NZ-46A | NZ-68A |
| Density 15°C | g/cm ³ | 0.838 | 0.847 | 0.862 |
| Flash Point (COC) | °C | 256 | 256 | 260 |
| Pour Point | °C | -17.5 | -17.5 | -17.5 |
| Kinematic Viscosity 40°C | mm²/s | 32.0 | 46.0 | 68.0 |
| Kinematic Viscosity 100°C | mm²/s | 6.17 | 7.52 | 9.28 |
| Viscosity Index | | 145 | 130 | 114 |
| Acid Number | mgKOH/g | 0.20 | 0.20 | 0.20 |
| Rust Characteristics (artificial sea water) | | Pass | Pass | Pass |
| Copper Strip Corrosion 100°C,3h | | 1 | 1 | 1 |
| Foam Test ml | 24°C | 0/0 | 0/0 | 0/0 |
| | 93.5°C | 0/0 | 0/0 | 0/0 |
| | 24°C After 93.5°C | 0/0 | 0/0 | 0/0 |
| Water Separability 54°C | ml(min) | 40-40-0(10) | 40-40-0(10) | 40-40-0(10) |
| Color (ASTM) | | L0.5 | L0.5 | L0.5 |
| Four-Ball wear, Scar diameter (1200rpm,392.2N,75°C,60min) mm | | 0.41 | 0.41 | 0.41 |

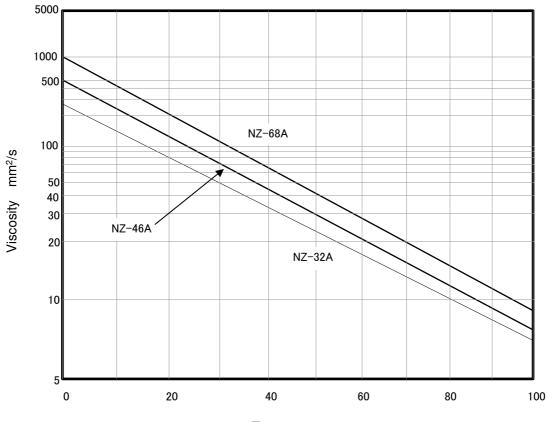
2. Typical properties

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Viscosity Charts (BARREL HYDRAULIC OIL NZ-A)

Temperature °C