



OIL ANALYSIS REPORT

| | |
|-----------------|--------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
PROPULSION MOTOR SN 370952/02-17 NDE
 Component
Non-Drive End Hydraulic System
 Fluid
PETRO CANADA HYDREX MV 68 (46 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WC0883759 | WC0757625 | WC0757658 |
| Sample Date | | Client Info | | 10 Feb 2024 | 04 Sep 2023 | 14 Jan 2023 |
| Machine Age | hrs | Client Info | | 11408 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|------|------|------|
| Iron | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >10 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >10 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | 2 | 2 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

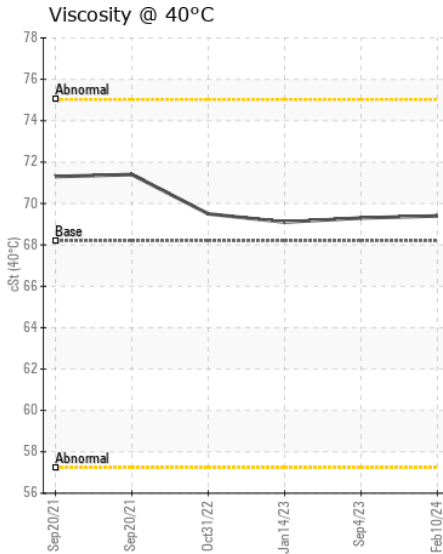
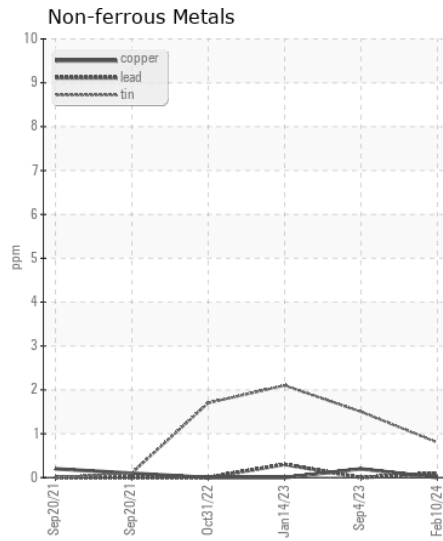
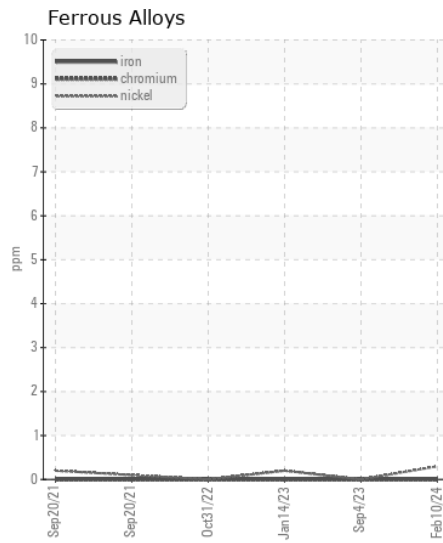
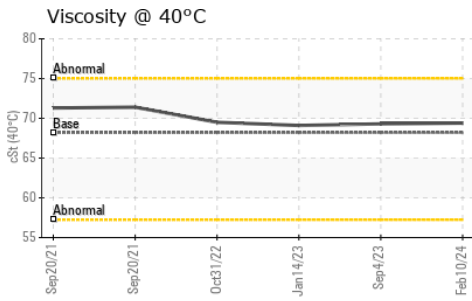
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >15 | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | VLITE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.05 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|---------------|------|------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Boron | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 1 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | 50 | 52 | 51 | 54 |
| Phosphorus | ppm | ASTM D5185(m) | 330 | 335 | 355 | 358 |
| Zinc | ppm | ASTM D5185(m) | 430 | 387 | 408 | 405 |
| Sulfur | ppm | ASTM D5185(m) | 760 | 820 | 790 | 809 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 68.2 | 69.4 | 69.3 | 69.1 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0883759
Lab Number : 02618959
Unique Number : 5736069
Test Package : MAR 5 (Additional Tests: ICP, KV40, Spat, Visual)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.