



OIL ANALYSIS REPORT

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

Area
(GMN 111) City Of Mount Pearl [3HAEKTART1ML680957]

Machine Id
INTERNATIONAL Side Loader Recycling Truck, 20-02G

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 32 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | OF0000269 | OF0000336 | OF0000329 |
| Sample Date | | Client Info | | 18 Oct 2021 | 29 Jun 2021 | 30 Mar 2021 |
| Machine Age | hrs | Client Info | | 1277 | 1080 | 804 |
| Oil Age | hrs | Client Info | | 1277 | 1080 | 804 |
| Filter Age | hrs | Client Info | | 163 | 276 | 161 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >20 | 3 | 3 | 2 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >75 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| 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

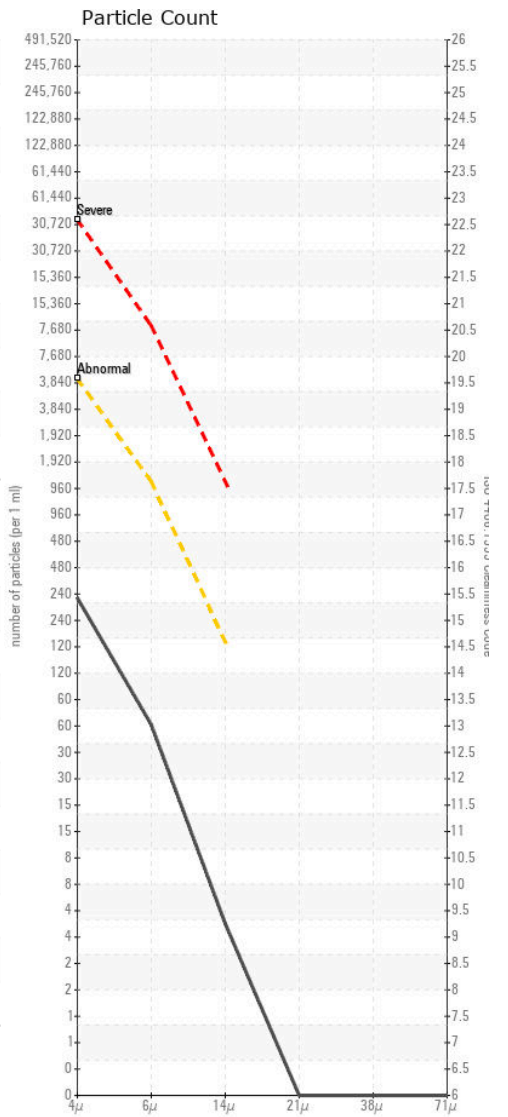
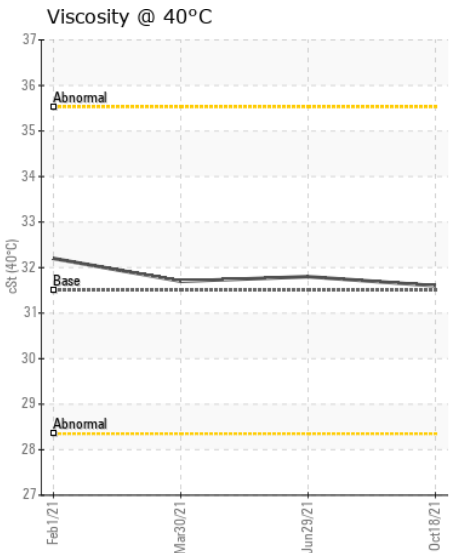
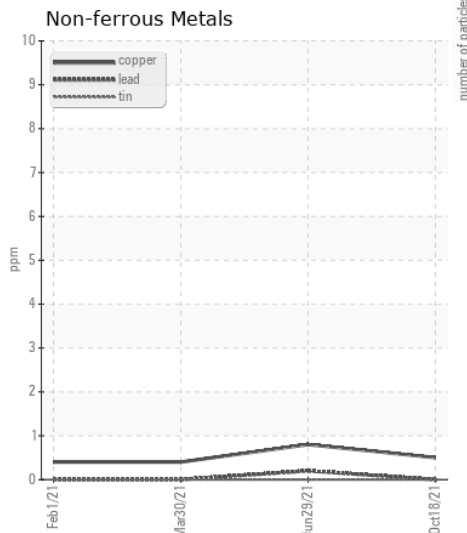
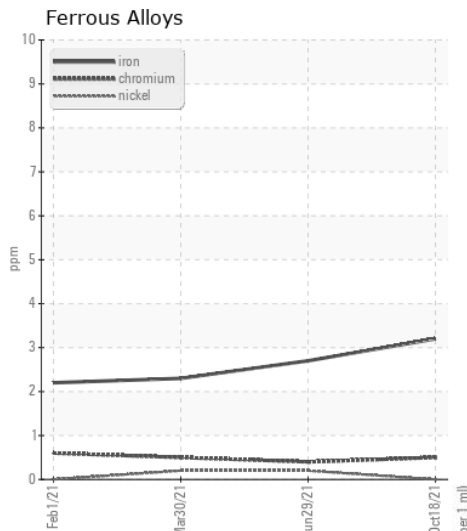
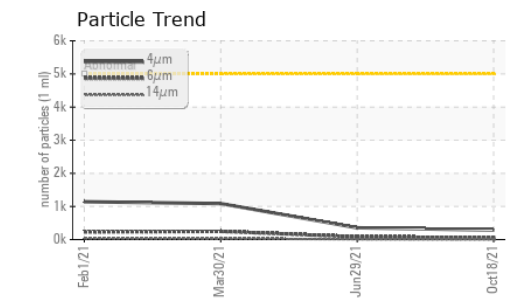
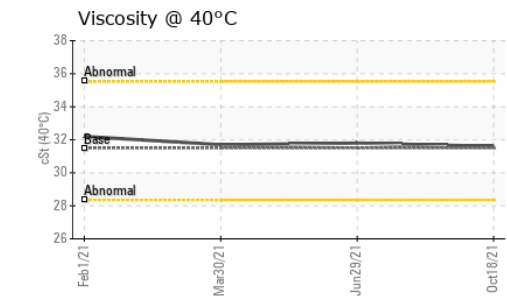
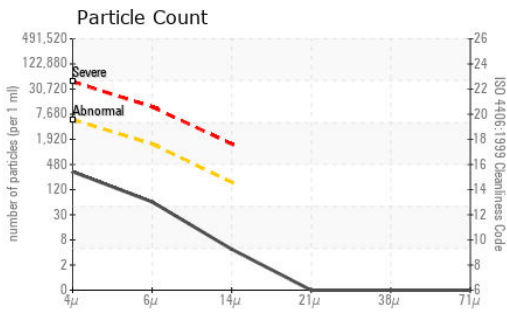
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|---------------|-----------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >20 | 3 | 3 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 284 | 356 | 1087 |
| Particles >6µm | | ASTM D7647 | >1300 | 54 | 83 | 247 |
| Particles >14µm | | ASTM D7647 | >160 | 4 | 10 | 25 |
| Particles >21µm | | ASTM D7647 | >40 | 0 | 3 | 9 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 15/13/9 | 16/14/10 | 17/15/12 |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | 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* | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | 0 | <1 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | 50 | 46 | 47 | 48 |
| Phosphorus | ppm | ASTM D5185(m) | 330 | 332 | 334 | 334 |
| Zinc | ppm | ASTM D5185(m) | 430 | 401 | 407 | 403 |
| Sulfur | ppm | ASTM D5185(m) | 760 | 742 | 742 | 738 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 31.5 | 31.6 | 31.8 | 31.7 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000269
Lab Number : 02476318
Unique Number : 5369246
Test Package : MOB 2
Received : 09 Mar 2022
Tested : 10 Mar 2022
Diagnosed : 10 Mar 2022 - Wes Davis

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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.