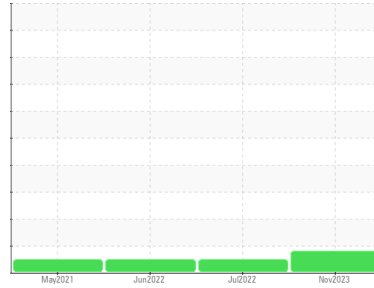


OIL ANALYSIS REPORT



Area
Haul Truck
Machine Id
HT4502
Component
Front Left Planetary
Fluid
NOT GIVEN (--- LTR)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PC0074875 | PC0048873 | PC0047112 |
| Sample Date | Client Info | 23 Nov 2023 | 27 Jul 2022 | 06 Jun 2022 |
| Machine Age | hrs | Client Info | 6729 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | NORMAL | NORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|-----------|------------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185(m) >500 | 22 | 100 | 103 |
| Chromium | ppm ASTM D5185(m) >10 | 0 | <1 | 1 |
| Nickel | ppm ASTM D5185(m) >10 | 0 | 0 | <1 |
| Titanium | ppm ASTM D5185(m) | 0 | <1 | <1 |
| Silver | ppm ASTM D5185(m) | <1 | <1 | 0 |
| Aluminum | ppm ASTM D5185(m) >25 | 2 | 4 | 4 |
| Lead | ppm ASTM D5185(m) >25 | <1 | 1 | 1 |
| Copper | ppm ASTM D5185(m) >75 | 19 | 47 | 45 |
| Tin | ppm ASTM D5185(m) >10 | <1 | 1 | 1 |
| Antimony | ppm ASTM D5185(m) >5 | 0 | 0 | 0 |
| Vanadium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

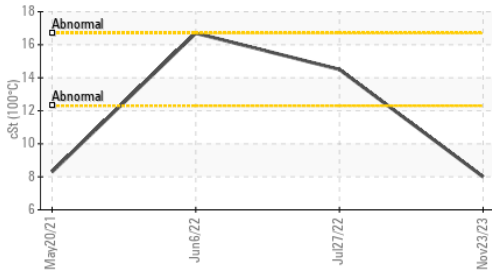
| method | limit/base | current | history1 | history2 |
|------------|-------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185(m) | 84 | 6 | 4 |
| Barium | ppm ASTM D5185(m) | <1 | 0 | 0 |
| Molybdenum | ppm ASTM D5185(m) | 0 | 2 | 2 |
| Manganese | ppm ASTM D5185(m) | 0 | 1 | 1 |
| Magnesium | ppm ASTM D5185(m) | 15 | 21 | 24 |
| Calcium | ppm ASTM D5185(m) | 3322 | 2959 | 3073 |
| Phosphorus | ppm ASTM D5185(m) | 1043 | 948 | 1100 |
| Zinc | ppm ASTM D5185(m) | 1344 | 1166 | 1256 |
| Sulfur | ppm ASTM D5185(m) | 2694 | 6086 | 6931 |
| Lithium | ppm ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

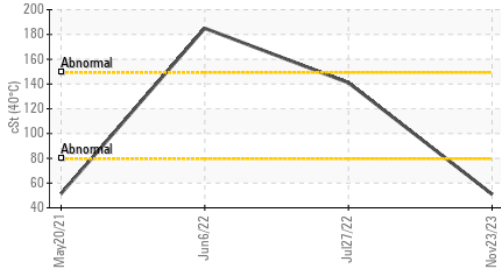
| method | limit/base | current | history1 | history2 |
|-----------|-----------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185(m) >75 | 12 | 22 | 26 |
| Sodium | ppm ASTM D5185(m) | <1 | 7 | 7 |
| Potassium | ppm ASTM D5185(m) >20 | 0 | 25 | 29 |

OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



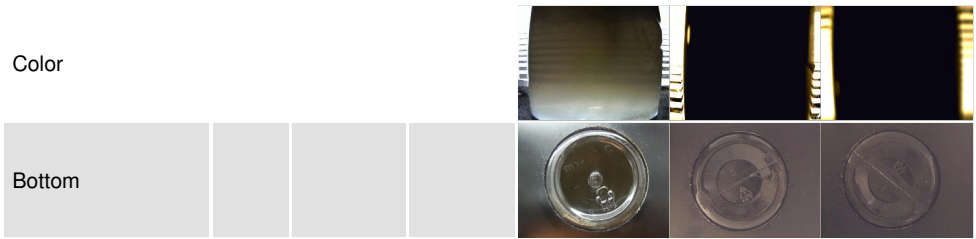
▲ Viscosity @ 40°C



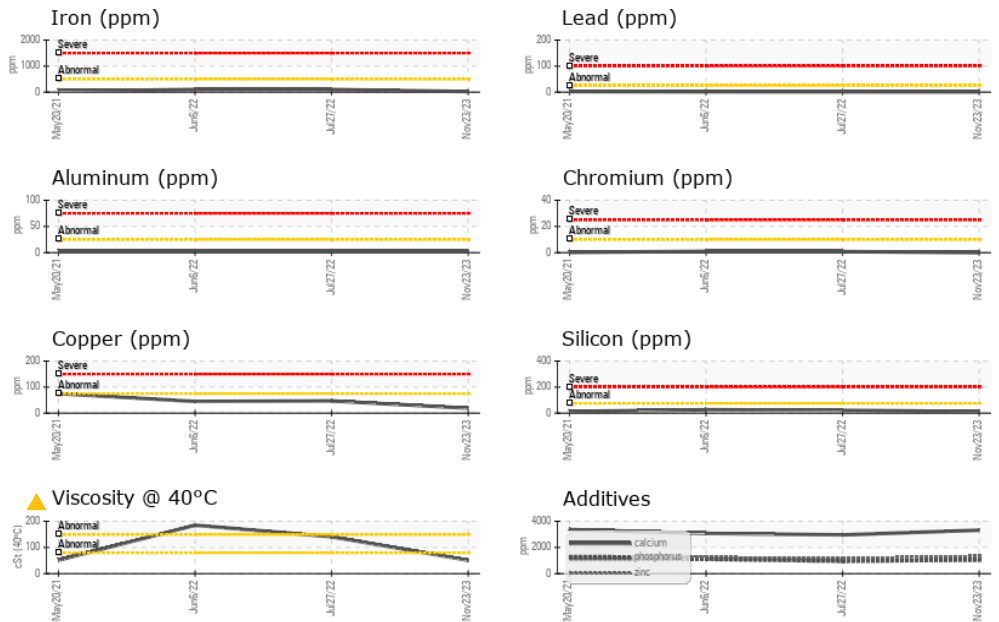
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | VLITE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | ▲ 51.0 | 141 | 185 |
| Visc @ 100°C | cSt | ASTM D7279(m) | ▲ 8 | 14.5 | 16.7 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 126 | 101 | 94 |

SAMPLE IMAGES method limit/base current history1 history2



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074875 **Received** : 06 Dec 2023
Lab Number : 02601297 **Diagnosed** : 07 Dec 2023
Unique Number : 5694382 **Diagnostician** : Bill Quesnel
Test Package : MOB 1 (Additional Tests: KV100, VI)

Lakeshore Gold Timmins West
 Timmins, ON
 CA
 Contact: Adam Koscielak
 adam.koscielak@HFSinclair.com
 T:
 F:

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.