

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH22M 137772-1525

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

WEAR

All component wear rates are normal.

RECOMMENDATION

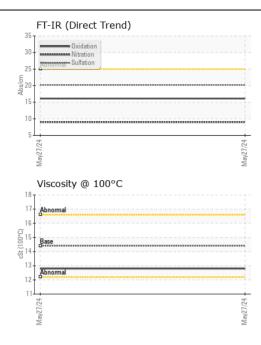
CONTAMINATION

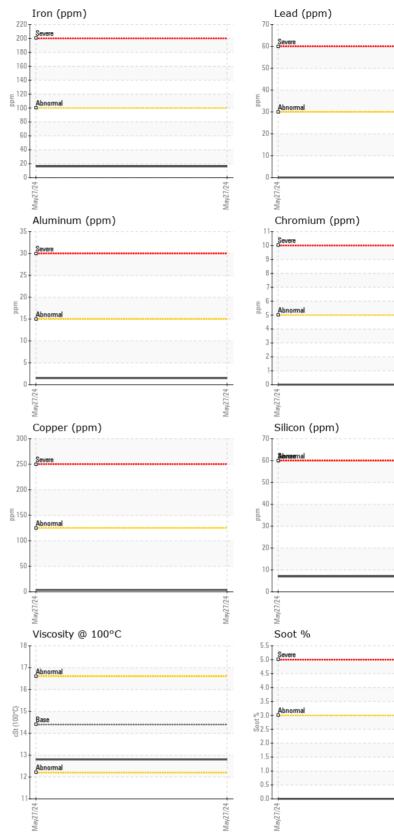
There is no indication of any contamination in the oil.

| FLUID CONDITION | |
|-----------------|------|
| | UINE |

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

| <u> </u> | | | | | | |
|------------------|----------|---------------|-----------|-------------|----------|----------|
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Sample Number | | Client Info | | LH0232644 | | |
| Sample Date | | Client Info | | 27 May 2024 | | |
| Machine Age | hrs | Client Info | | 3213 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Filter Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Filter Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| | | | | | | |
| Iron | ppm | ASTM D5185(m) | >100 | 16 | | |
| Chromium | ppm | ASTM D5185(m) | >5 | 0 | | |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | | |
| Titanium | ppm | ASTM D5185(m) | | <1 | | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >15 | 2 | | |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | | |
| Copper | ppm | ASTM D5185(m) | >125 | 4 | | |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| White Metal | scalar | Visual* | NONE | NONE | | |
| Yellow Metal | scalar | Visual* | NONE | NONE | | |
| | | | | | | |
| Silicon | ppm | ASTM D5185(m) | >60 | 7 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | | |
| Fuel | | WC Method | >5 | <1.0 | | |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| Soot % | % | ASTM D7844* | >3 | 0 | | |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.0 | | |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.2 | | |
| Silt | scalar | Visual* | NONE | NONE | | |
| Debris | scalar | Visual* | NONE | NONE | | |
| Sand/Dirt | scalar | Visual* | NONE | NONE | | |
| Appearance | scalar | Visual* | NORML | NORML | | |
| Odor | scalar | Visual* | NORML | NORML | | |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | | |
| | | | | | | |
| Sodium | ppm | ASTM D5185(m) | >216 | 3 | | |
| Boron | ppm | ASTM D5185(m) | 250 | 77 | | |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | | |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 36 | | |
| Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | 450 | 791 | | |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1380 | | |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 984 | | |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1176 | | |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2719 | | |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.1 | | |
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 12.8 | | |
| | | ······ | | | | |





6 Excavation Dolbeau Inc. 493 - 2ieme Avenue Dolbeau-Mistassini, QC CA G8L 1V3 Contact: Service Manager



 Accredited Laboratory
 Unique Number
 : 5788516
 Diagnosed
 : 03 Jun 2024 - Wes Davis

 Test Package
 : MOBCE (Additional Tests: Visual)
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 To discuss this sample report, contact Customer Service at 1-800-268-2131.
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: LH0232644

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Tested

: 03 Jun 2024

: 03 Jun 2024

Report Id: EXCDOL [WCAMIS] 02639354 (Generated: 06/03/2024 14:05:05) Rev: 1

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number : 02639354

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Submitted By: ? Page 2 of 2