

OIL ANALYSIS REPORT

Sample Rating Trend





Diesel Engine

Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

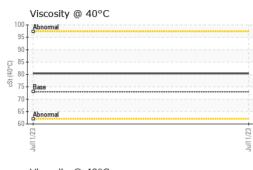
The condition of the oil is acceptable for the time in service.

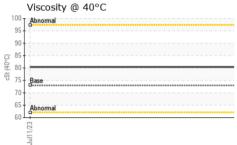
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|------------------------------|----------|----------------------------|------------|--------------|-------------------|----------|
| | | | | | | |
| | | mathad | | Juiz023 | historyd | historyO |
| SAMPLE INFOR | | | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PC0066008 | | |
| Sample Date | | Client Info | | 11 Jul 2023 | | |
| Machine Age | kms | Client Info | | 135852 | | |
| Dil Age | kms | Client Info Client Info | | 25000 N/A | | |
| Dil Changed Sample Status | | Client Inio | | | | |
| | | | 1 | | | |
| CONTAMINA | HON | method | limit/base | current | history1 | history2 |
| uel | | WC Method | >5 | <1.0 | | |
| Glycol | | WC Method | | NEG | | |
| WEAR META | LS | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185(m) | >100 | 21 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | | |
| lickel | ppm | ASTM D5185(m) | >4 | 0 | | |
| itanium | ppm | ASTM D5185(m) | | 0 | | |
| Silver | ppm | ASTM D5185(m) | >3 | <1 | | |
| luminum | ppm | ASTM D5185(m) | >20 | 9 | | |
| ead | ppm | ASTM D5185(m) | >40 | <1 | | |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | | |
| ïn | ppm | ASTM D5185(m) | >15 | <1 | | |
| ntimony | ppm | ASTM D5185(m) | | 0 | | |
| anadium | ppm | ASTM D5185(m) | | 0 | | |
| eryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 250 | 3 | | |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | | |
| lolybdenum | ppm | ASTM D5185(m) | 100 | 59 | | |
| langanese | ppm | ASTM D5185(m) | | <1 | | |
| lagnesium | ppm | ASTM D5185(m) | 450 | 998 | | |
| alcium | ppm | ASTM D5185(m) | 3000 | 1135 | | |
| hosphorus | ppm | ASTM D5185(m) | 1150 | 1071 | | |
| linc | ppm | ASTM D5185(m) | 1350 | 1244 | | |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2416 | | |
| ithium | ppm | ASTM D5185(m) | | <1 | | |
| CONTAMINA | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 7 | | |
| Sodium | ppm | ASTM D5185(m) | | 2 | | |
| otassium | ppm | ASTM D5185(m) | >20 | 22 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >3 | 0.4 | | |
| litration | Abs/cm | ASTM D7624* | >20 | 8.7 | | |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.9 | | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Dxidation | Abs/.1mm | ASTM D7414* | >25 | 16.0 | | |
| 5:32) Rev: 1 | | | | | ct/Location: Stev | |

Report Id: BFRSTA [WCAMIS] 02569648 (Generated: 07/14/2023 08:15

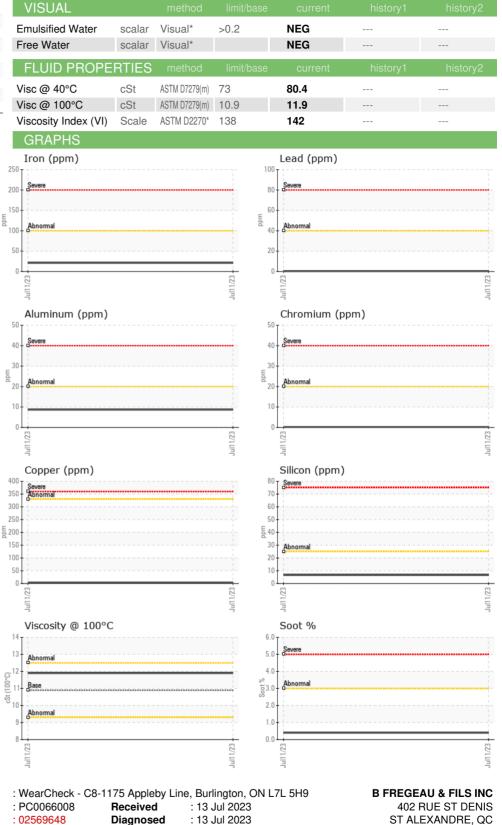


OIL ANALYSIS REPORT





ppm





Accredited Laboratory Test Package : MOB 1 (Additional Tests: KV40, VI) 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.

: 5606694

Diagnostician : Wes Davis

ST ALEXANDRE, QC CA J0J 1S0 Contact: Steve M. stevem@bfregeau.com T: F:

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number

Unique Number