



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

Machine Id
19 SOUTHWICK ST THOMAS U609097K 4502758
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (10 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PN0006133 | PN0004742 | PN0002167 |
| Sample Date | | Client Info | | 29 Apr 2024 | 16 Mar 2023 | 30 Mar 2021 |
| Machine Age | hrs | Client Info | | 400 | 381 | 294 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | MARGINAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >250 | 2 | 3 | 5 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >35 | 2 | 2 | 1 |
| Lead | ppm | ASTM D5185(m) | >100 | 0 | 2 | <1 |
| Copper | ppm | ASTM D5185(m) | >60 | 3 | 5 | 4 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | VLITE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

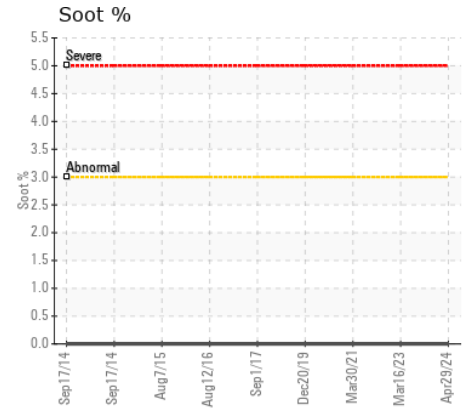
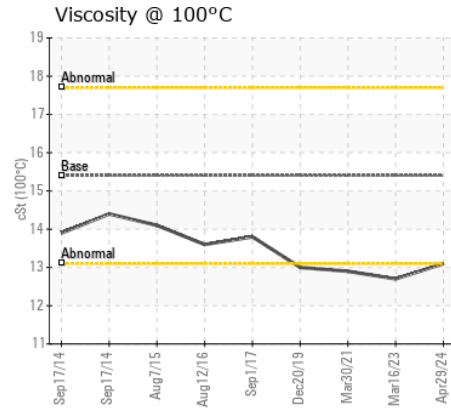
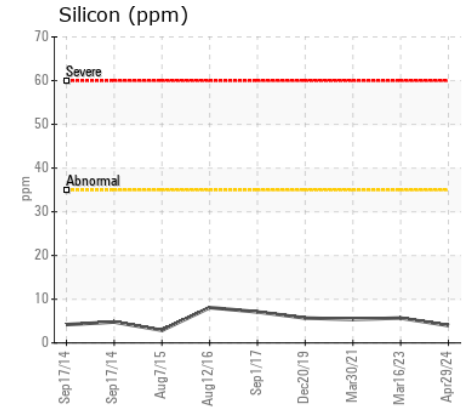
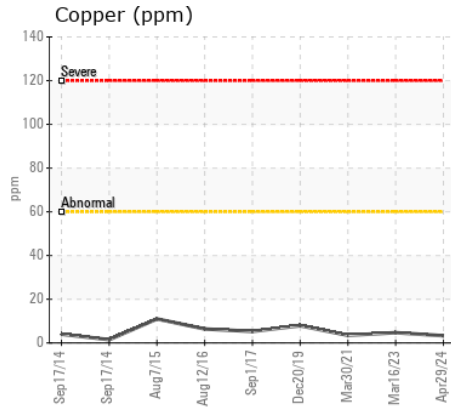
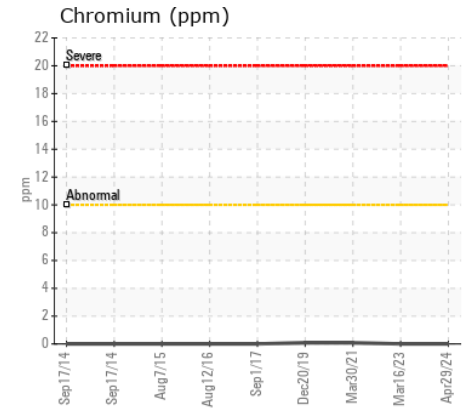
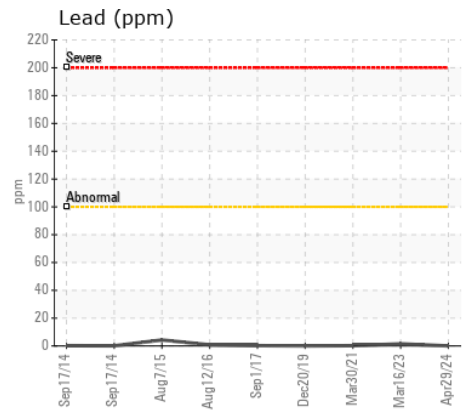
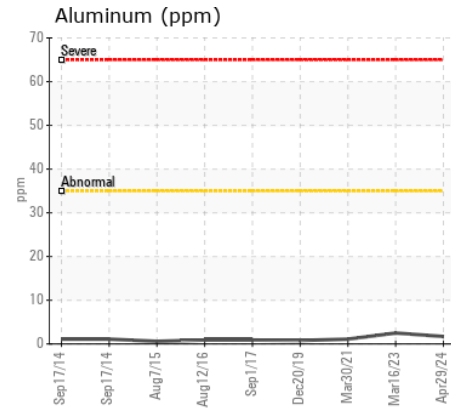
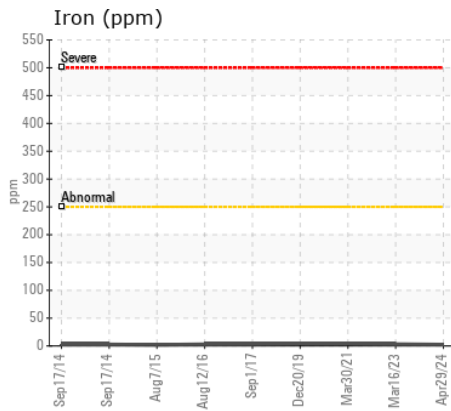
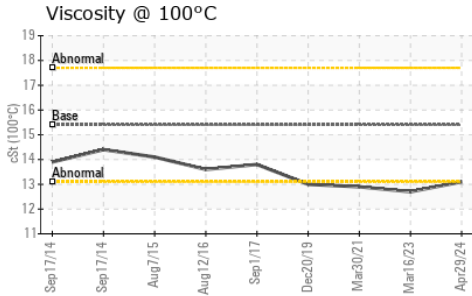
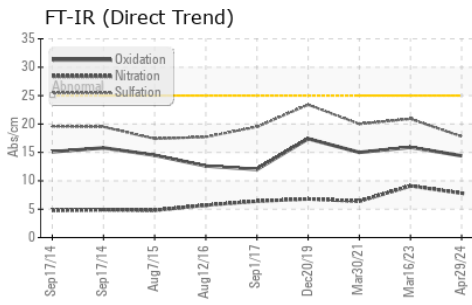
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|------|
| Silicon | ppm | ASTM D5185(m) | >35 | 4 | 6 | 5 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | 2 |
| Fuel | | WC Method | >5 | <1.0 | ▲ 3.4 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.8 | 9.1 | 6.4 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 17.8 | 20.9 | 20.0 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | VLITE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >192 | 2 | 3 | 3 |
| Boron | ppm | ASTM D5185(m) | | 46 | 67 | 69 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 68 | 74 | 16 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 371 | 136 | 629 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1704 | 2120 | 1413 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 937 | 1016 | 715 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1063 | 1071 | 854 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2720 | 3055 | 2414 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.4 | 15.9 | 15.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.1 | 12.7 | 12.9 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006133 **Received** : 01 May 2024
Lab Number : 02632494 **Tested** : 01 May 2024
Unique Number : 5773647 **Diagnosed** : 01 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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.