



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

Area

[86417]

Machine Id

60 PRICE ANDREW PLAC XBASE XBASE

Component

Left Natural Gas 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 | | PN0006117 | PN0004302 | PN0003464 |
| Sample Date | | Client Info | | 21 May 2024 | 28 Nov 2022 | 26 May 2022 |
| Machine Age | hrs | Client Info | | 161 | 0 | 111 |
| Oil Age | hrs | Client Info | | 17 | 10 | 0 |
| Filter Age | hrs | Client Info | | 17 | 10 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| Filter Changed | | Client Info | | Changed | Not Changed | Changed |
| Sample Status | | | | NORMAL | SEVERE | SEVERE |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|---------------|------|--------------|-------|-------|
| Iron | ppm | ASTM D5185(m) | >50 | 8 | 17 | 62 |
| Chromium | ppm | ASTM D5185(m) | >4 | 0 | <1 | 2 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >9 | <1 | 2 | 4 |
| Lead | ppm | ASTM D5185(m) | >30 | 23 | ▲ 203 | ▲ 293 |
| Copper | ppm | ASTM D5185(m) | >35 | 2 | 8 | 14 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <1 | 1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

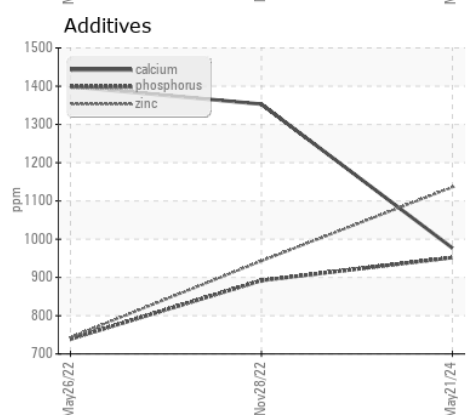
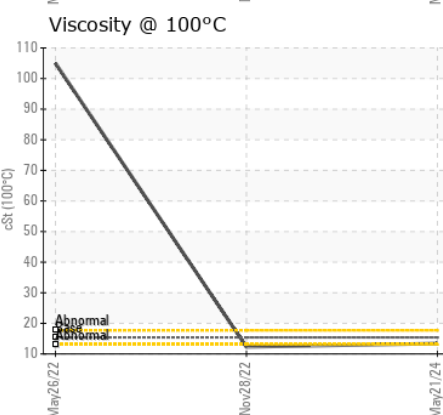
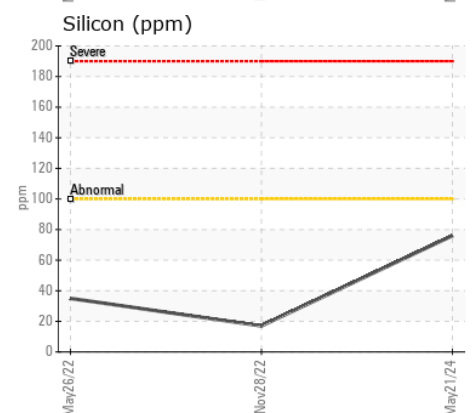
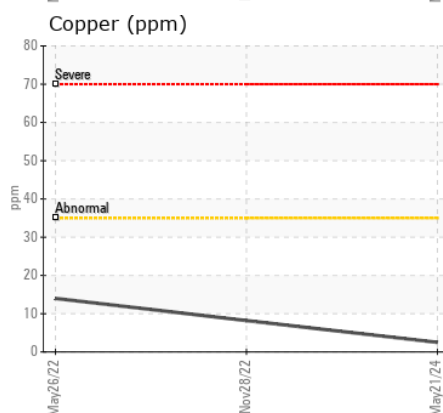
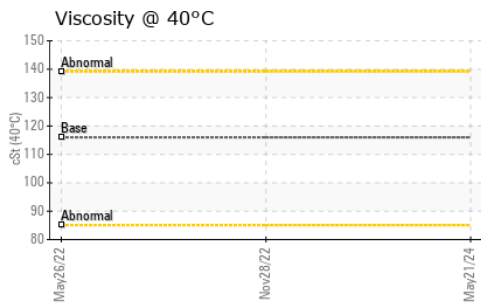
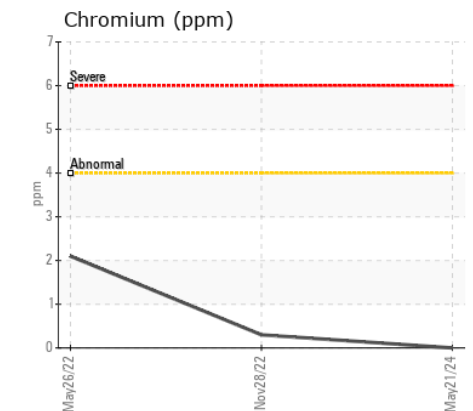
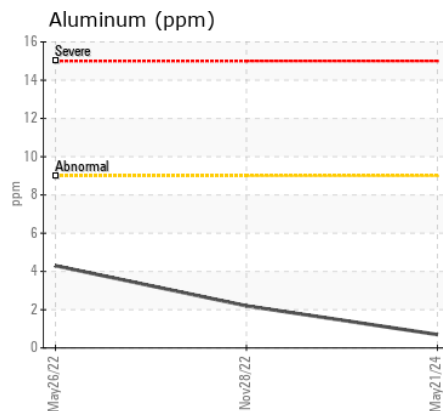
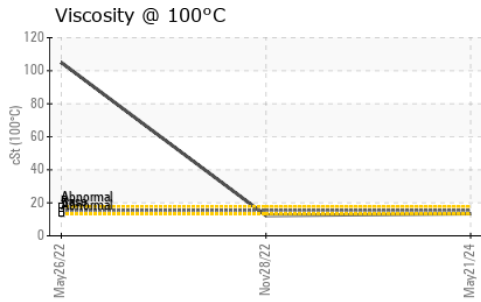
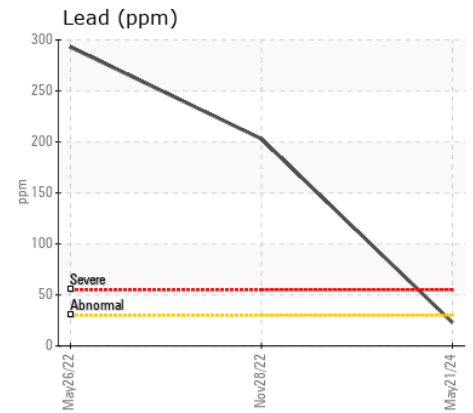
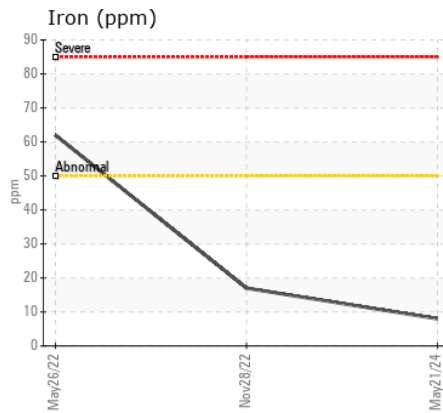
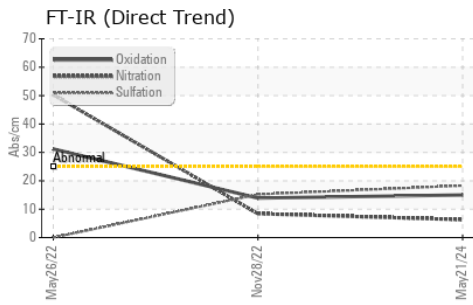
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|--------------|-------|--------|
| Silicon | ppm | ASTM D5185(m) | >+100 | 76 | 17 | 35 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 2 | 4 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | --- | 0.0 | 0.0 |
| Soot % | % | ASTM D7844* | | 0 | 0 | 0.3 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.3 | 8.4 | ▲ 50.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.3 | 15.2 | 0.0 |
| Silt | scalar | Visual* | NONE | VLITE | --- | --- |
| Debris | scalar | Visual* | NONE | VLITE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | ▲ .2% | ▲ .5% |

FLUID CONDITION

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

| | | | | | | |
|----------------------|----------|---------------|------|-------------|------|--------|
| Sodium | ppm | ASTM D5185(m) | >192 | 3 | 5 | 8 |
| Boron | ppm | ASTM D5185(m) | | 25 | 46 | 106 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 61 | 87 | 145 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | 2 |
| Magnesium | ppm | ASTM D5185(m) | | 976 | 553 | 521 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 977 | 1353 | 1399 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 952 | 892 | 739 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1136 | 943 | 743 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2545 | 2413 | 1942 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.0 | 13.9 | ▲ 31.2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 116 | 91.0 | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.4 | 12.3 | 105 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 140 | 148 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006117 **Received** : 24 May 2024
Lab Number : 02637384 **Tested** : 24 May 2024
Unique Number : 5786546 **Diagnosed** : 24 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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.

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