



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

Machine Id
5691 MAIN STREET STOUVILLE AINSWORTH CATG3412CKAP01005
 Component
Right Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (180 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PN0006199 | PN0003909 | PN0002936 |
| Sample Date | | Client Info | | 24 Jun 2024 | 26 Aug 2022 | 04 Nov 2021 |
| Machine Age | hrs | Client Info | | 177 | 133 | 62 |
| Oil Age | hrs | Client Info | | 32 | 69 | 0 |
| Filter Age | hrs | Client Info | | 32 | 69 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|-----|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >50 | 1 | 2 | 1 |
| Chromium | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >9 | <1 | 3 | 2 |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >35 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |

CONTAMINATION

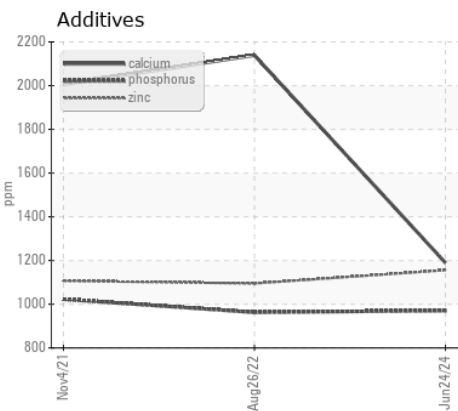
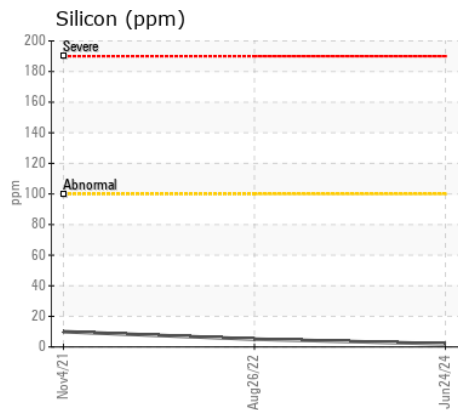
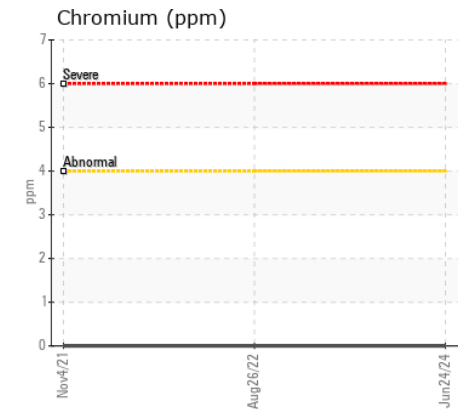
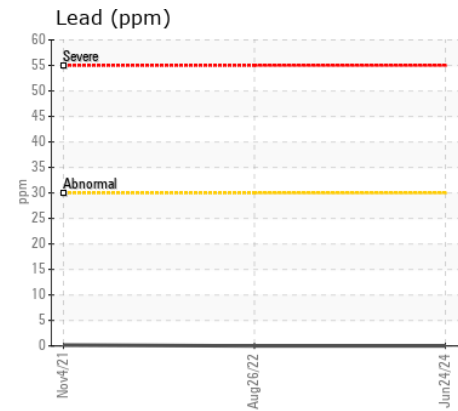
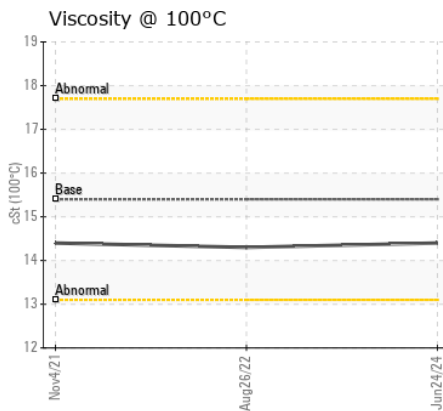
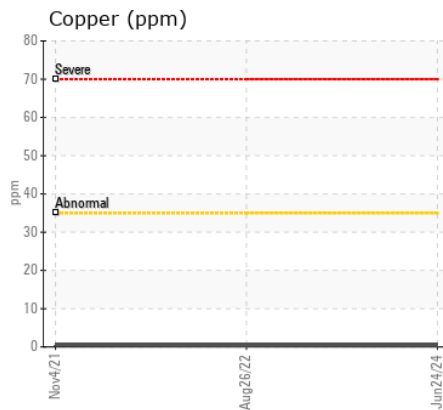
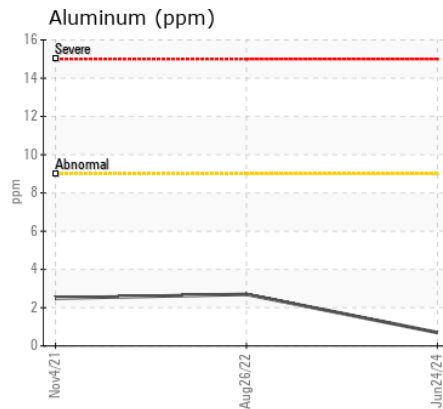
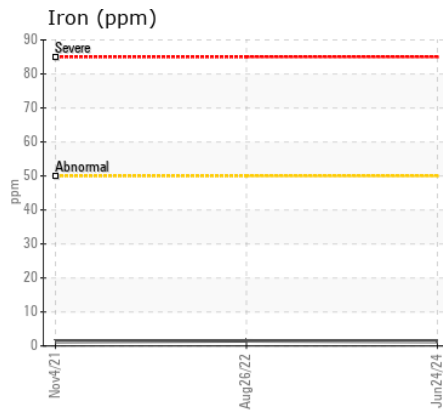
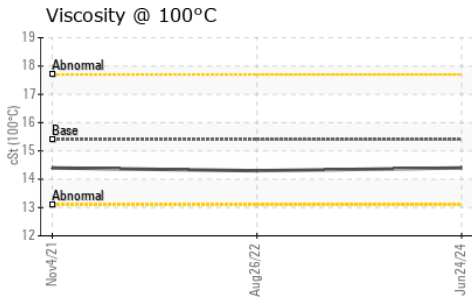
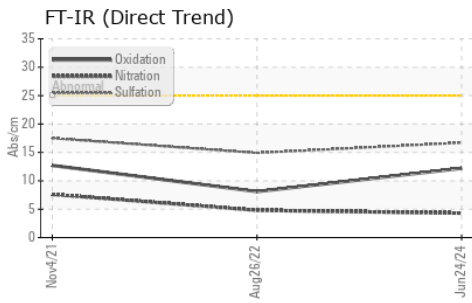
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|--------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >+100 | 2 | 5 | 10 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | --- | --- | 0.0 |
| Soot % | % | ASTM D7844* | | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 4.3 | 4.8 | 7.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 16.7 | 14.9 | 17.5 |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | .1% |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >192 | 1 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | | 4 | 66 | 68 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 52 | 85 | 75 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 838 | 20 | 23 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1190 | 2139 | 2006 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 971 | 963 | 1023 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1156 | 1095 | 1107 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2547 | 3176 | 3247 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 12.2 | 8.1 | 12.7 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 14.4 | 14.3 | 14.4 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006199
Lab Number : 02644488
Unique Number : 5802027
Test Package : MOB 1

Received : 28 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 Jun 2024 - Wes Davis

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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.