

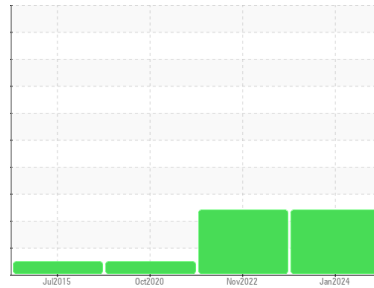
OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Area
GREATER SHEDIAC SEWERAGE [6100246557]
Machine Id
JOHN DEERE PE5030L011277
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WA0020808 | WA0018632 | WA0015527 |
| Sample Date | Client Info | | 11 Jan 2024 | 03 Nov 2022 | 08 Oct 2020 |
| Machine Age | hrs | Client Info | 699 | 633 | 564 |
| Oil Age | hrs | Client Info | 66 | 33 | 31 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | SEVERE | SEVERE | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron | ppm | ASTM D5185(m) | >51 | 2 | 1 |
| Chromium | ppm | ASTM D5185(m) | >11 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >31 | 1 | 2 |
| Lead | ppm | ASTM D5185(m) | >26 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >26 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185(m) | | 6 | 52 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 53 | 63 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 788 | 22 |
| Calcium | ppm | ASTM D5185(m) | | 985 | 1972 |
| Phosphorus | ppm | ASTM D5185(m) | | 887 | 951 |
| Zinc | ppm | ASTM D5185(m) | | 1007 | 997 |
| Sulfur | ppm | ASTM D5185(m) | | 2412 | 2882 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 |

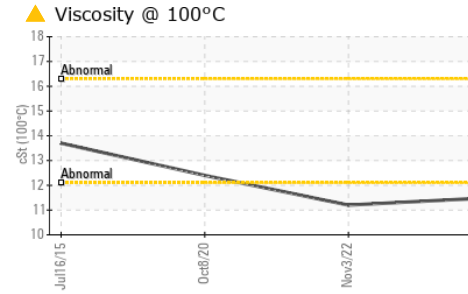
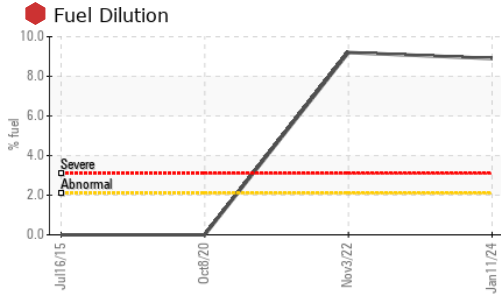
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|------------|----------|
| Silicon | ppm | ASTM D5185(m) | >22 | 4 | 6 |
| Sodium | ppm | ASTM D5185(m) | >406 | 1 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 |
| Fuel | % | ASTM D7593* | >2.1 | 8.9 | 9.2 |

INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|---------|-------------|---------|-------------|----------|
| Soot % | % | ASTM D7844* | >3 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 5.3 | 7.6 |
| Sulfation | Abs.1mm | ASTM D7415* | >30 | 18.0 | 17.5 |

OIL ANALYSIS REPORT

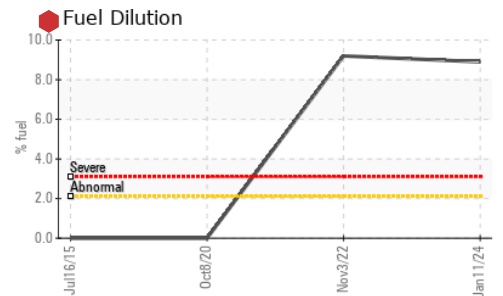
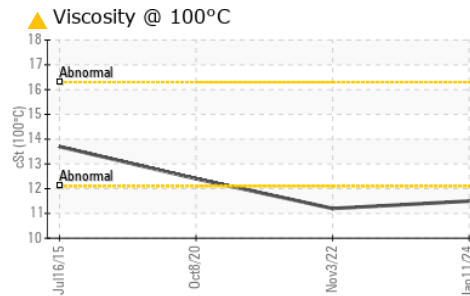
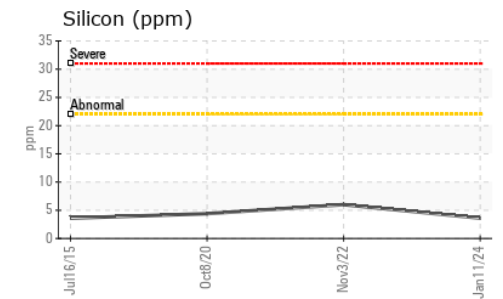
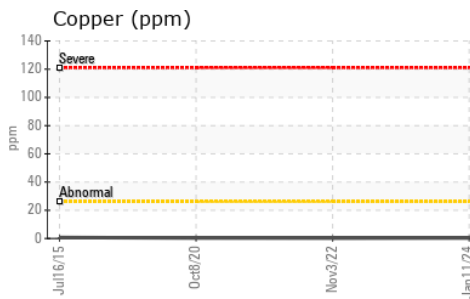
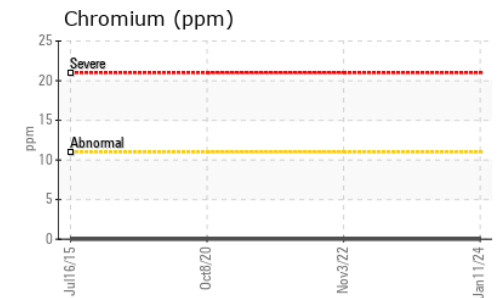
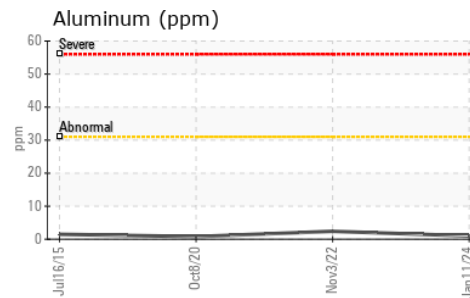
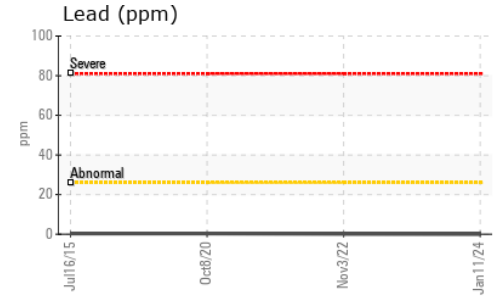
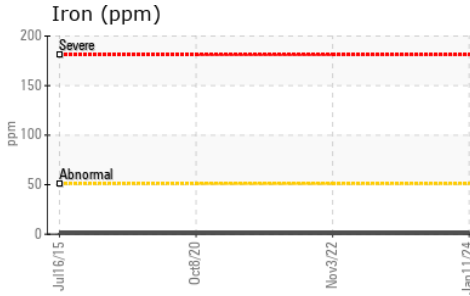


| FLUID DEGRADATION | method | limit/base | current | history1 | history2 | |
|-------------------|----------|-------------|---------|----------|----------|------|
| Oxidation | Abs./1mm | ASTM D7414* | >25 | 13.0 | 12.5 | 13.5 |

| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Emulsified Water | scalar | Visual* | >0.21 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | ▲ 11.5 | ▲ 11.2 | 12.4 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020808 **Recieved** : 16 Jan 2024
Lab Number : 02608918 **Diagnosed** : 17 Jan 2024
Unique Number : 5710004 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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.

Wajax Power Systems
 485 VENTURE DR
 MONCTON, NB
 CA E1H 2P4
 Contact: Doug Balsler
 dbalsler@wajax.com
 T: (506)855-5371
 F: (506)870-4448