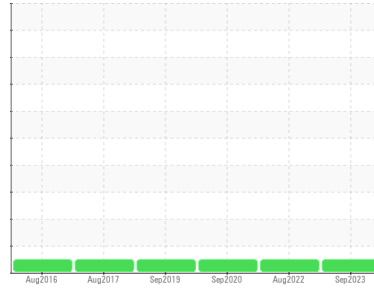




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
JOHN DEERE M0077
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (14 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | WC0836774 | WC0709825 | WC0442684 |
| Sample Date | Client Info | | | 05 Sep 2023 | 03 Aug 2022 | 02 Sep 2020 |
| Machine Age | hrs | Client Info | | 0 | 172 | 138 |
| Oil Age | hrs | Client Info | | 24 | 19 | 0 |
| Oil Changed | Client Info | | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >2.1 | | <1.0 | <1.0 | <1.0 |
| Glycol | WC Method | | | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) | >51 | 4 | 3 | 7 |
| Chromium | ppm | ASTM D5185(m) | >11 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >31 | 1 | <1 | 1 |
| Lead | ppm | ASTM D5185(m) | >26 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >26 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <1 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | 250 | 6 | 7 | 26 |
| Barium | ppm | ASTM D5185(m) | 10 | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 4 | 5 | 38 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 450 | 70 | 71 | 721 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 2192 | 2252 | 1350 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 870 | 862 | 1059 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1014 | 1018 | 1228 |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 3045 | 3146 | 3017 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

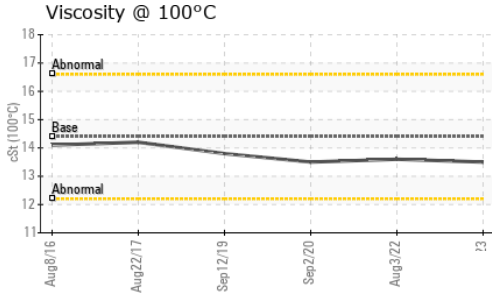
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >22 | 2 | 2 | 4 |
| Sodium | ppm | ASTM D5185(m) | >158 | 2 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 2 | 2 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.4 | 5.8 | 6.2 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 15.7 | 15.8 | 16.3 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|------------|----------|----------|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 9.6 | 9.6 | 13.0 |



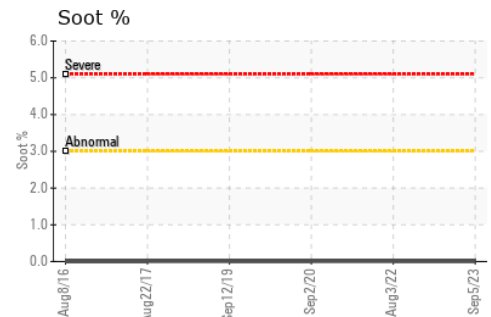
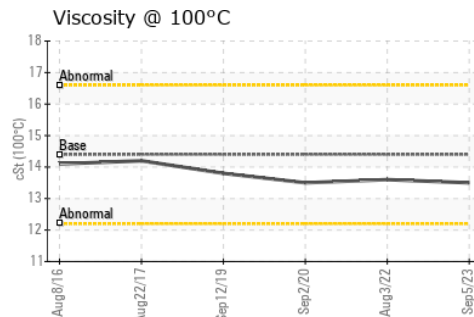
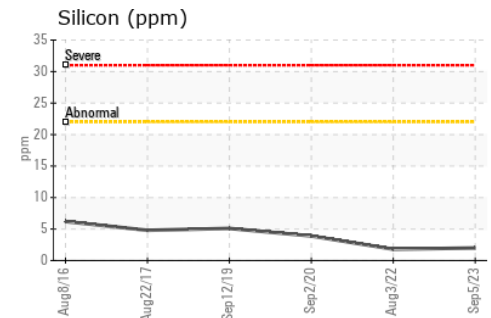
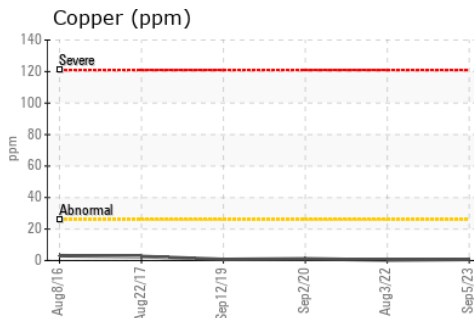
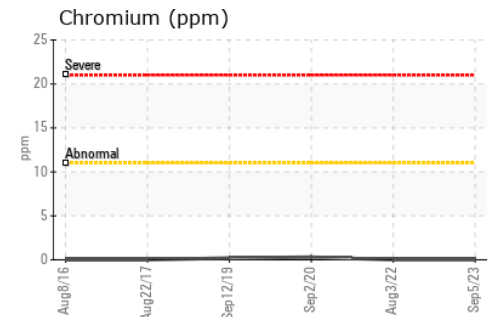
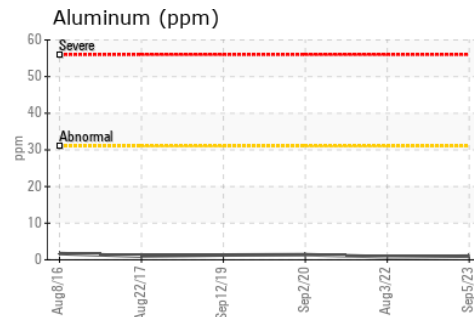
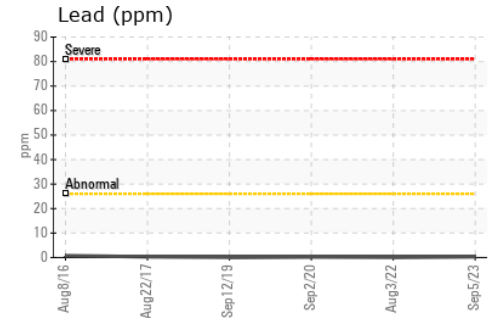
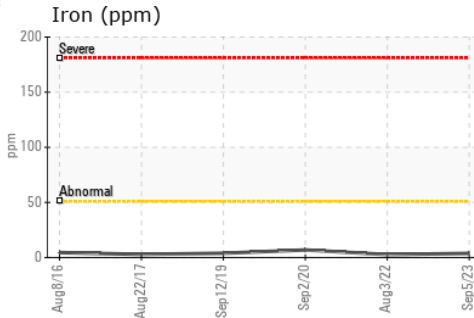
OIL ANALYSIS REPORT



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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 13.5 | 13.6 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0836774 **Received** : 04 Oct 2023
Lab Number : 02586685 **Diagnosed** : 04 Oct 2023
Unique Number : 5655751 **Diagnostician** : Wes Davis
Test Package : MOB 1

GENCARE SERVICES LTD.
 360 SOVEREIGN ROAD
 LONDON, ON
 CA N6M 1A8
 Contact: Teresa Matthews
 tmatthews@gencare.com
 T: (519)659-7118
 F: (519)451-1707

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.