



OIL ANALYSIS REPORT

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

Machine Id
JOHN DEERE 748LII 748LII
 Component
Diesel Engine
 Fluid
CHEVRON 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | WE0007551 | --- | --- |
| Sample Date | | Client Info | | 29 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 7380 | --- | --- |
| Oil Age | hrs | Client Info | | 500 | --- | --- |
| Filter Age | hrs | Client Info | | 500 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

Valve wear is indicated.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >51 | 37 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | ▲ 10 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 5 | --- | --- |
| Lead | ppm | ASTM D5185m | >26 | 1 | --- | --- |
| Copper | ppm | ASTM D5185m | >26 | 7 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

There is no indication of any contamination in the oil.

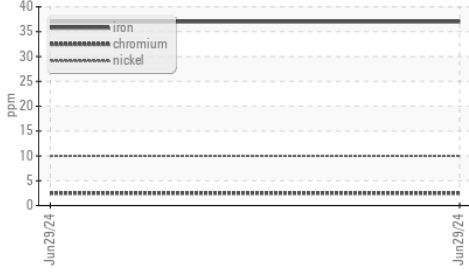
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >22 | 16 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 10 | --- | --- |
| Fuel | | WC Method | >2.1 | <1.0 | --- | --- |
| Water | | WC Method | >0.21 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.8 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.8 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 24.7 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.21 | NEG | --- | --- |

FLUID CONDITION

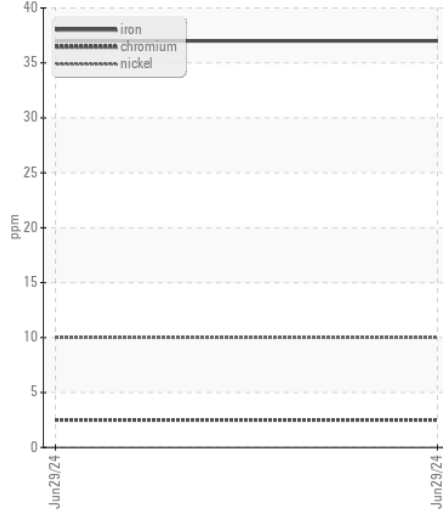
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|-----|-----|
| Sodium | ppm | ASTM D5185m | >50 | 5 | --- | --- |
| Boron | ppm | ASTM D5185m | | 32 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 79 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 356 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1627 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 1081 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1372 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3276 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.8 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.5 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.3 | --- | --- |

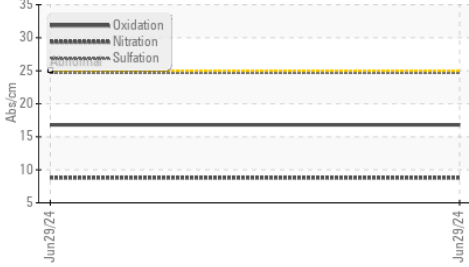
▲ Ferrous Alloys



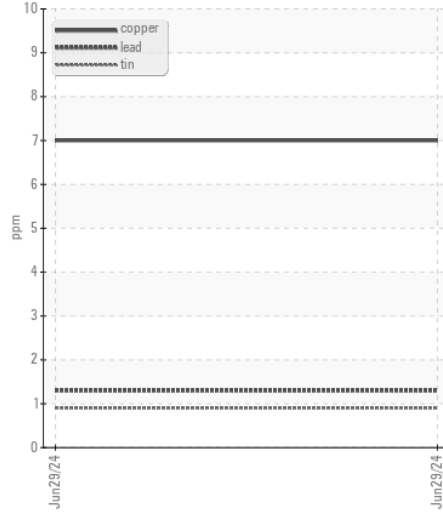
▲ Ferrous Alloys



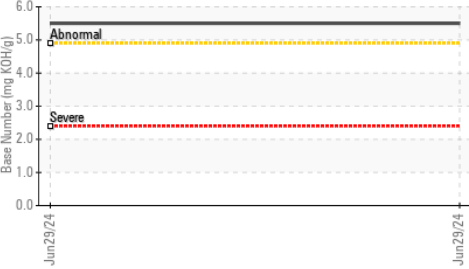
FT-IR (Direct Trend)



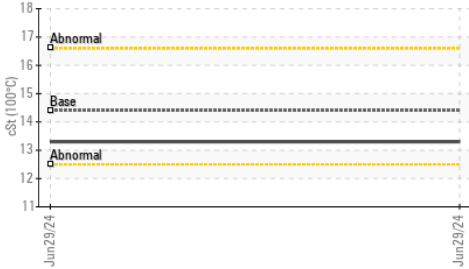
Non-ferrous Metals



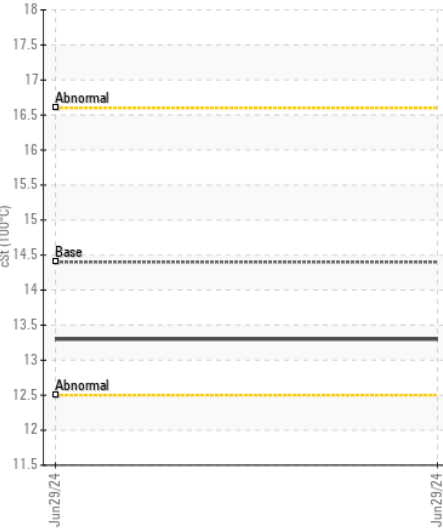
Base Number



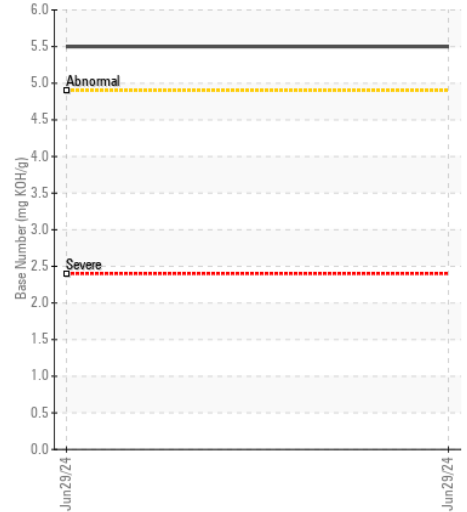
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WE0007551

Lab Number : 06229684

Unique Number : 11113177

Test Package : CONST (Additional Tests: TBN)

Received : 08 Jul 2024

Tested : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Jonathan Hester

WARRIOR TRACTOR AND EQUIPMENT - MONROEVILLE

66 INDUSTRIAL PARK DR

MONROEVILLE, AL

US 36460

Contact: SCOTT WILLIAMSON

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T: (251)575-7111

F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)