CONST

WEAR CHECK

OIL ANALYSIS REPORT

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

Machine Id
## JOHN DEERE 844P 06735
Component
## Diesel Engine
Fluid
## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

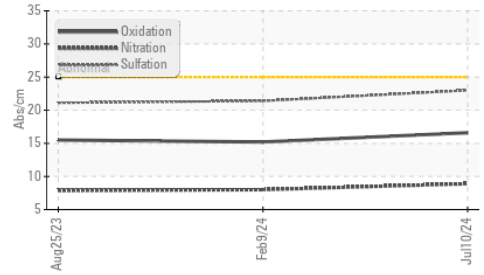
There is no indication of any contamination in the oil.

## FLUID CONDITION

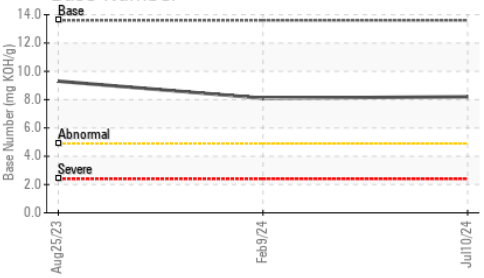
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | MT0006120 | MT0005806 | MT0005795 |
| Sample Date | | Client Info | | 10 Jul 2024 | 09 Feb 2024 | 25 Aug 2023 |
| Machine Age | hrs | Client Info | | 2566 | 1521 | 343 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Not Changd |
| Filter Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | MARGINAL | ABNORMAL |
| Iron | ppm | ASTM D5185m | >51 | 14 | 17 | 29 |
| Chromium | ppm | ASTM D5185m | >11 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 4 | 5 | 6 |
| Lead | ppm | ASTM D5185m | >26 | 3 | 3 | 11 |
| Copper | ppm | ASTM D5185m | >26 | 6 | ▲ 41 | ▲ 380 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 2 | 8 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >22 | 5 | 7 | 15 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 3 | 4 |
| Fuel | % | ASTM D3524 | >2.1 | <1.0 | <1.0 | 0.3 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.4 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.9 | 8.0 | 7.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.0 | 21.4 | 21.1 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | >31 | 5 | 3 | 13 |
| Boron | ppm | ASTM D5185m | | 153 | 194 | 272 |
| Barium | ppm | ASTM D5185m | | <1 | 12 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 240 | 255 | 262 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 13 |
| Magnesium | ppm | ASTM D5185m | | 800 | 764 | 811 |
| Calcium | ppm | ASTM D5185m | | 1443 | 1264 | 1435 |
| Phosphorus | ppm | ASTM D5185m | | 871 | 739 | 900 |
| Zinc | ppm | ASTM D5185m | | 985 | 1028 | 1062 |
| Sulfur | ppm | ASTM D5185m | | 3336 | 2849 | 3508 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.6 | 15.2 | 15.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 8.2 | 8.1 | 9.3 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.3 | 12.6 | ● 9.9 |

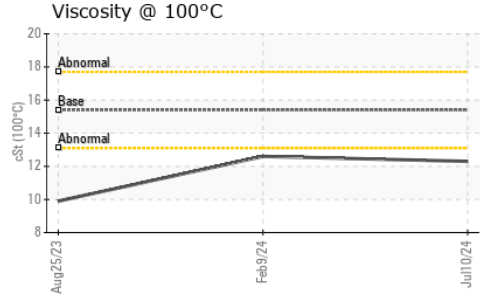
FT-IR (Direct Trend)



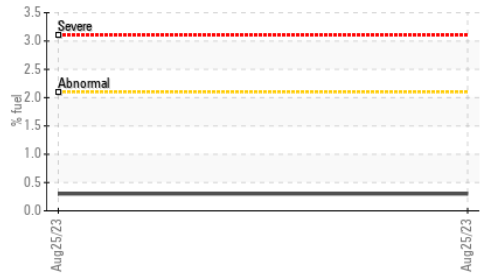

Base Number



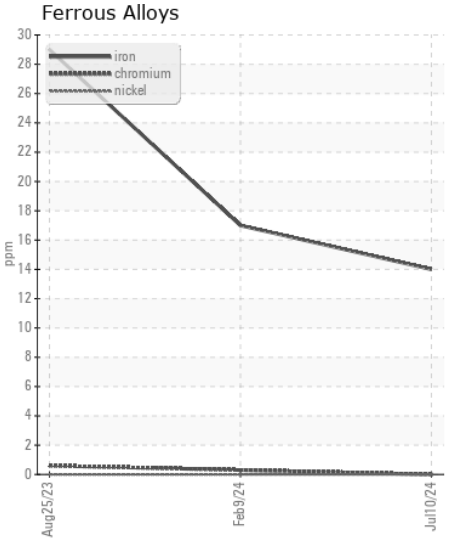

Viscosity @ 100°C



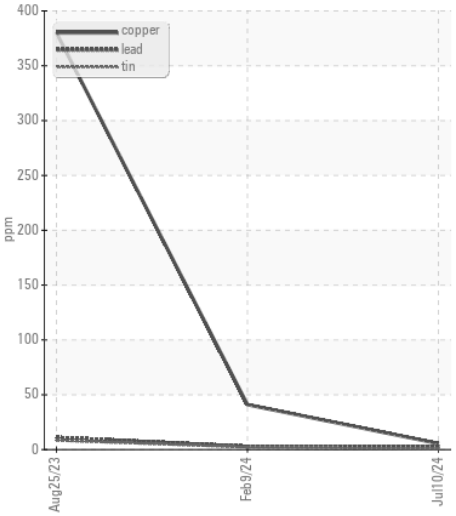

Fuel Dilution



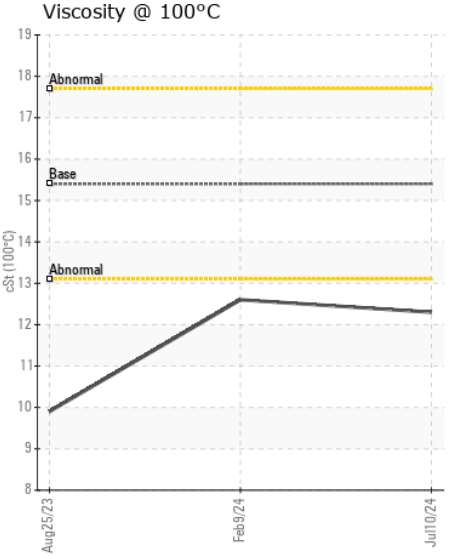

Ferrous Alloys



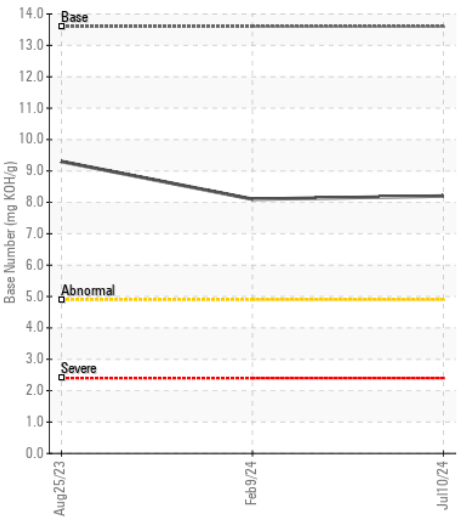

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : MT0006120
**Lab Number** : 06237560
**Unique Number** : 11126394
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

**Received** : 16 Jul 2024
**Tested** : 17 Jul 2024
**Diagnosed** : 18 Jul 2024 - Sean Felton

*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)*

**MURPHY TRACTOR - CAMBRIDGE**
60611 HULSE DRIVE
CAMBRIDGE, OH
US 43725
Contact: DUSTIN DAILEY
DDAILEY@MURPHYTRACTOR.COM
T:
F: (740)439-2325