MOB II HIGH PERFORMANCE LUBRICANTS

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | ABNORMAL |
| CONTAMINATION | SEVERE |
| FLUID CONDITION | ABNORMAL |

Machine Id
## FORD F550 MT7662 (S/N 1FDUF5HT6DEA87662)
Component
## Diesel Engine
Fluid
## DIESEL ENGINE OIL 10W40 (--- QTS)

## RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

## WEAR

Cylinder, crank, or cam shaft wear is indicated.

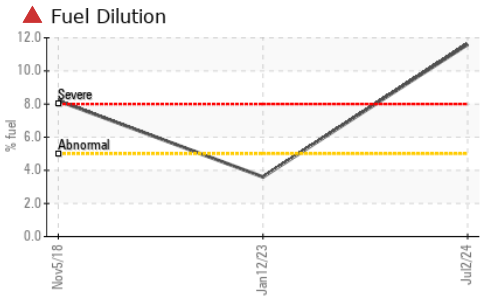
## CONTAMINATION

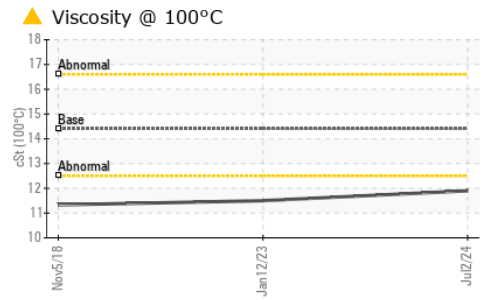
There is a high amount of fuel present in the oil.

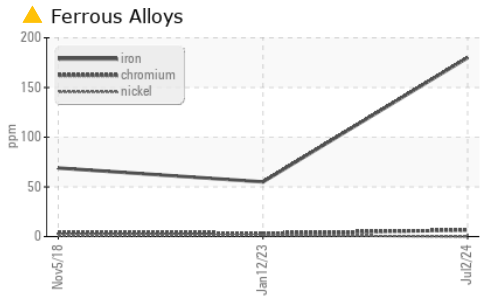
## FLUID CONDITION

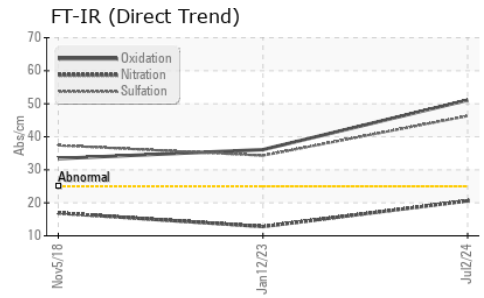
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

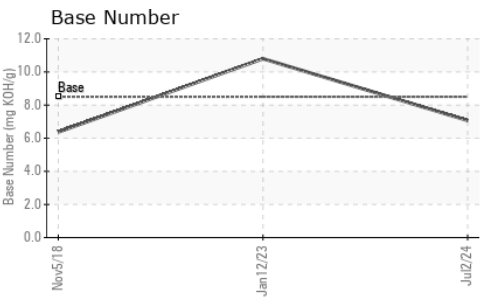
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | HPL0003801 | HPL0002369 | HPL004121 |
| Sample Date | | Client Info | | 02 Jul 2024 | 12 Jan 2023 | 05 Nov 2018 |
| Machine Age | hrs | Client Info | | 0 | 7903 | 0 |
| Oil Age | hrs | Client Info | | 0 | 682 | 0 |
| Filter Age | hrs | Client Info | | 0 | 682 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | N/A |
| Filter Changed | | Client Info | | N/A | Changed | N/A |
| Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |
| Iron | ppm | ASTM D5185m | >100 | ▲ 180 | 55 | 69 |
| Chromium | ppm | ASTM D5185m | >20 | 6 | 3 | 5 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 6 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 13 | 8 | 8 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 6 | 1 | 5 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| 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 | >25 | 12 | 8 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 1 |
| Fuel | % | ASTM D3524 | >5 | ▲ 11.6 | ▲ 3.6 | ▲ 8.2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | 0.4 | 1.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 20.6 | 12.8 | 16.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 46.3 | 34.3 | 37.4 |
| 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 | >0.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | 6 | <1 | 7 |
| Boron | ppm | ASTM D5185m | 250 | 3 | 24 | 25 |
| Barium | ppm | ASTM D5185m | 10 | 1 | 4 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 437 | 147 | 59 |
| Manganese | ppm | ASTM D5185m | | 1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 450 | 806 | 586 | 566 |
| Calcium | ppm | ASTM D5185m | 3000 | 2412 | 1627 | 2203 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 977 | 978 | 786 |
| Zinc | ppm | ASTM D5185m | 1350 | 1152 | 1149 | 887 |
| Sulfur | ppm | ASTM D5185m | 4250 | 8103 | 4106 | 7984 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 51.1 | 36.1 | 33.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 7.07 | 10.80 | 6.37 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | ▲ 11.9 | ▲ 11.5 | ▲ 11.33 |

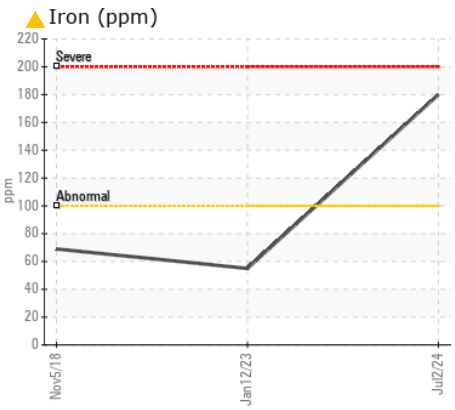


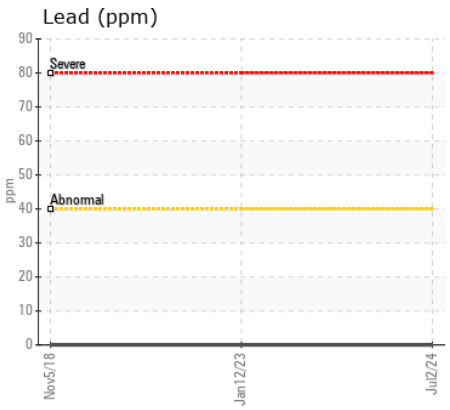



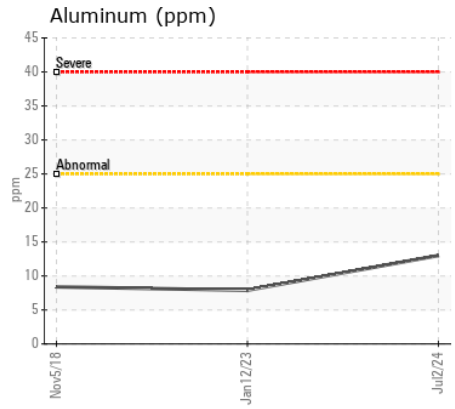



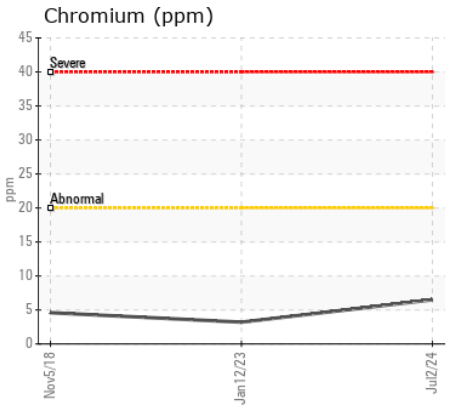



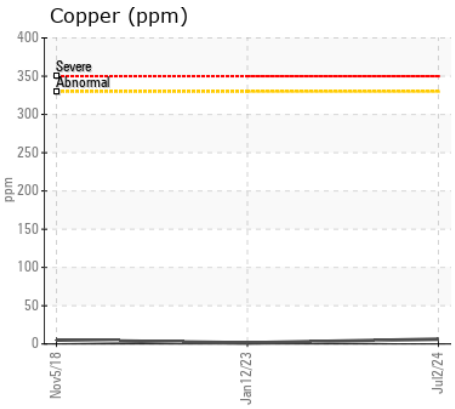



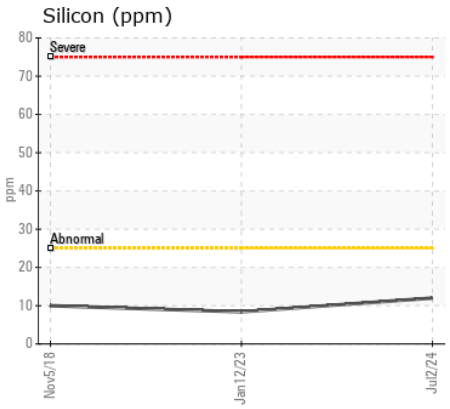



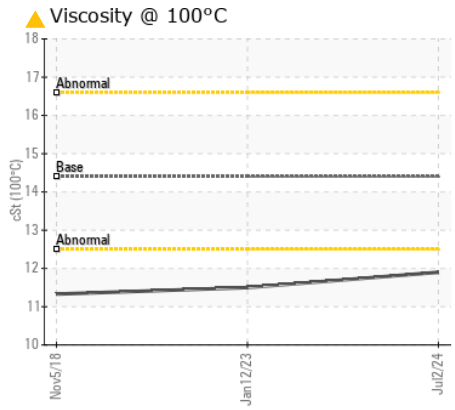



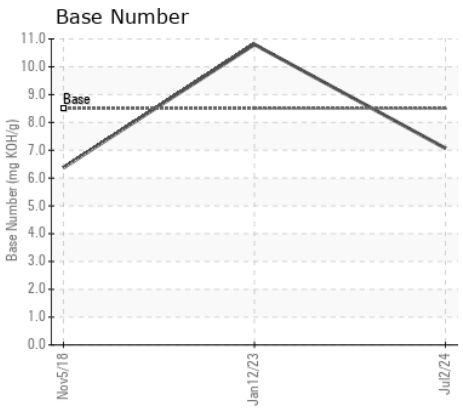




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : HPL0003801 **Received** : 10 Jul 2024
**Lab Number** : 06232411 **Tested** : 13 Jul 2024
**Unique Number** : 11115904 **Diagnosed** : 13 Jul 2024 - Don Baldridge
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

*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)*

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