



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(XE16014) S0916A-Suamico
 Machine Id
FORD 329024
 Component
Front Center Diesel Engine
 Fluid
MOBIL MOBIL1 10W30 (13 QTS)



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

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | GFL0074840 | --- | --- |
| Sample Date | Client Info | 07 Sep 2023 | --- | --- |
| Machine Age | mls Client Info | 113569 | --- | --- |
| Oil Age | mls Client Info | 6107 | --- | --- |
| Oil Changed | Client Info | Changed | --- | --- |
| Sample Status | | NORMAL | --- | --- |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|--------------|----------------|----------|----------|
| Fuel | WC Method >5 | <1.0 | --- | --- |
| Glycol | WC Method | NEG | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >100 | 16 | --- | --- |
| Chromium | ppm ASTM D5185m >20 | 1 | --- | --- |
| Nickel | ppm ASTM D5185m >2 | <1 | --- | --- |
| Titanium | ppm ASTM D5185m >2 | <1 | --- | --- |
| Silver | ppm ASTM D5185m >2 | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m >25 | 2 | --- | --- |
| Lead | ppm ASTM D5185m >40 | <1 | --- | --- |
| Copper | ppm ASTM D5185m >330 | 5 | --- | --- |
| Tin | ppm ASTM D5185m >15 | 1 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | <1 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-----------------|-------------|----------|----------|
| Boron | ppm ASTM D5185m | 3 | --- | --- |
| Barium | ppm ASTM D5185m | 44 | --- | --- |
| Molybdenum | ppm ASTM D5185m | 53 | --- | --- |
| Manganese | ppm ASTM D5185m | 1 | --- | --- |
| Magnesium | ppm ASTM D5185m | 823 | --- | --- |
| Calcium | ppm ASTM D5185m | 906 | --- | --- |
| Phosphorus | ppm ASTM D5185m | 883 | --- | --- |
| Zinc | ppm ASTM D5185m | 1094 | --- | --- |
| Sulfur | ppm ASTM D5185m | 3090 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|----------|----------|----------|
| Silicon | ppm ASTM D5185m >25 | 4 | --- | --- |
| Sodium | ppm ASTM D5185m | 2 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | 3 | --- | --- |

INFRA-RED

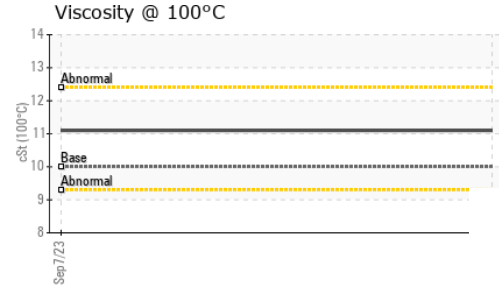
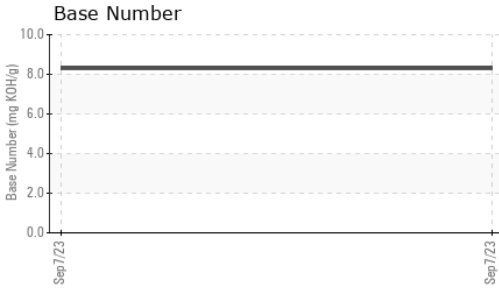
| method | limit/base | current | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot % | % *ASTM D7844 >3 | 0.6 | --- | --- |
| Nitration | Abs/cm *ASTM D7624 >20 | 9.5 | --- | --- |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | 18.9 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation | Abs/.1mm *ASTM D7414 >25 | 16.0 | --- | --- |
| Base Number (BN) | mg KOH/g ASTM D2896 | 8.3 | --- | --- |



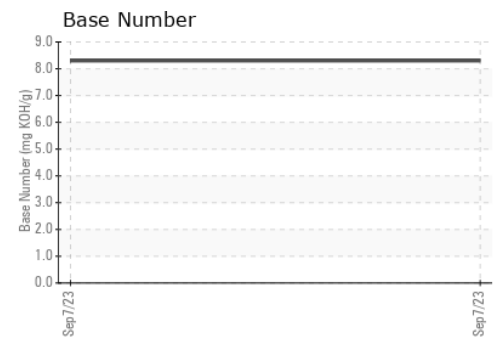
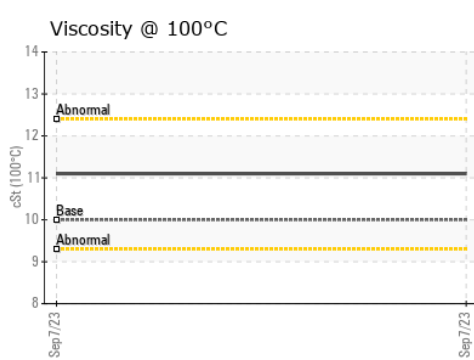
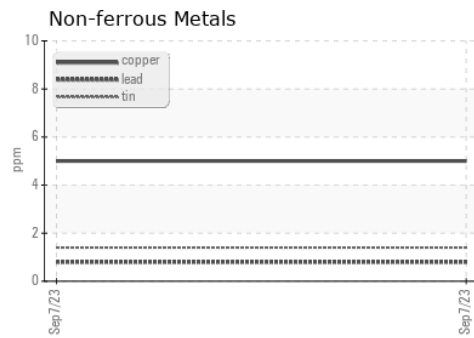
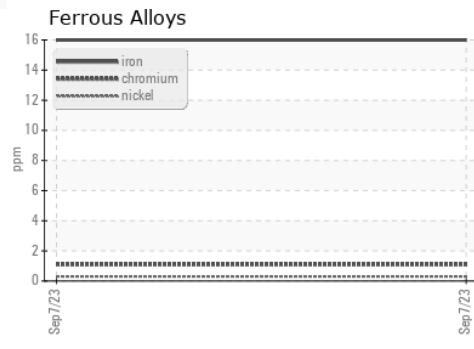
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- | --- |
| 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 | >0.2 | NEG | --- | --- |
| Free Water | scalar | *Visual | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 100°C | cSt | ASTM D445 | 10 | 11.1 | --- | --- |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0074840 **Received** : 15 Sep 2023
Lab Number : 05952486 **Diagnosed** : 19 Sep 2023
Unique Number : 10648445 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 916A - Suamico
 2300 Deerfield Ave E
 Suamico, WI
 US 54313
 Contact: NICHOLAS WEIDNER
 nweidner@gflenv.com
 T:
 F:

Certificate L2367
 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)