# OIL ANALYSIS REPORT

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

Machine Id
**95051**
Component
**Diesel Engine**
Fluid
**MOBIL DELVAC 1300 SUPER15W40 (10 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

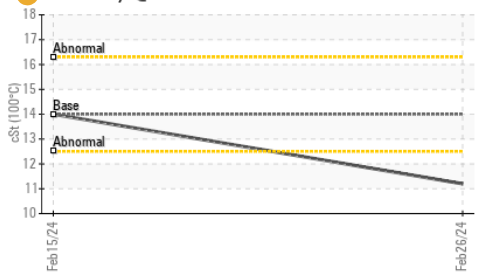
Fuel content negligible. No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

## FLUID CONDITION

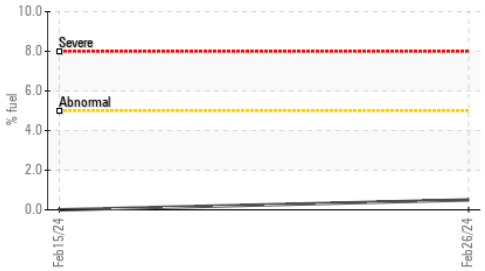
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | SBP0005489 | SBP0005491 | --- |
| Sample Date | | Client Info | | 26 Feb 2024 | 15 Feb 2024 | --- |
| Machine Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | N/A | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | ATTENTION | SEVERE | --- |
| Iron | ppm | ASTM D5185m | >80 | 13 | 76 | --- |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 4 | --- |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 2 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >30 | 1 | 15 | --- |
| Lead | ppm | ASTM D5185m | >30 | 0 | 3 | --- |
| Copper | ppm | ASTM D5185m | >150 | <1 | 5 | --- |
| Tin | ppm | ASTM D5185m | >5 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Silicon | ppm | ASTM D5185m | >20 | 5 | 17 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | ▲ 517 | --- |
| Fuel | % | ASTM D3524 | >5 | 0.5 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | % | *ASTM D2982 | | NEG | ▲ 0.10 | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 1 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.1 | 12.7 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.0 | 25.3 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |
| Sodium | ppm | ASTM D5185m | | <1 | ▲ 151 | --- |
| Boron | ppm | ASTM D5185m | 0 | 8 | 10 | --- |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 63 | 112 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | --- |
| Magnesium | ppm | ASTM D5185m | 0 | 943 | 914 | --- |
| Calcium | ppm | ASTM D5185m | | 1066 | 1061 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1111 | 881 | --- |
| Zinc | ppm | ASTM D5185m | | 1275 | 1191 | --- |
| Sulfur | ppm | ASTM D5185m | | 3553 | 3132 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.9 | 23.5 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 9.5 | 7.1 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14 | ● 11.2 | 14.0 | --- |

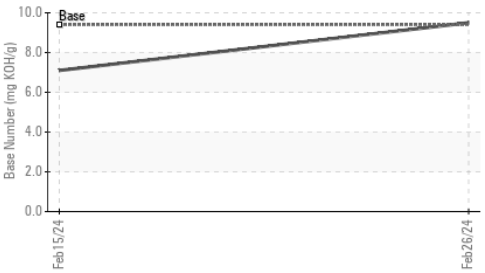
Viscosity @ 100°C



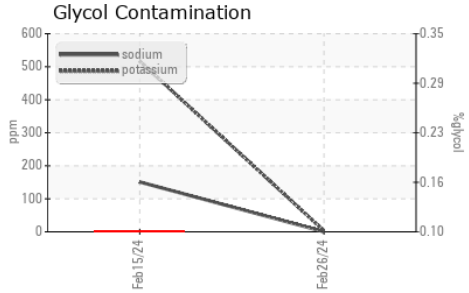

Fuel Dilution



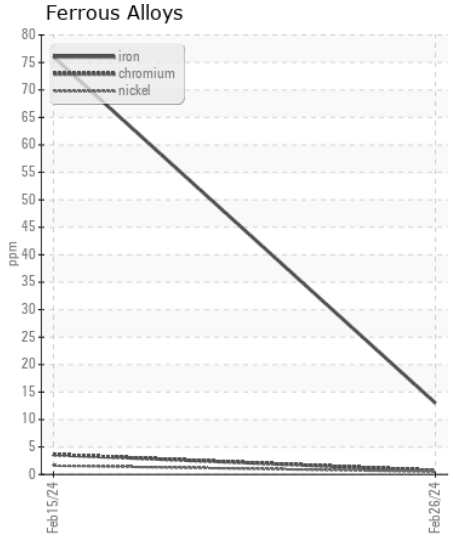

Base Number



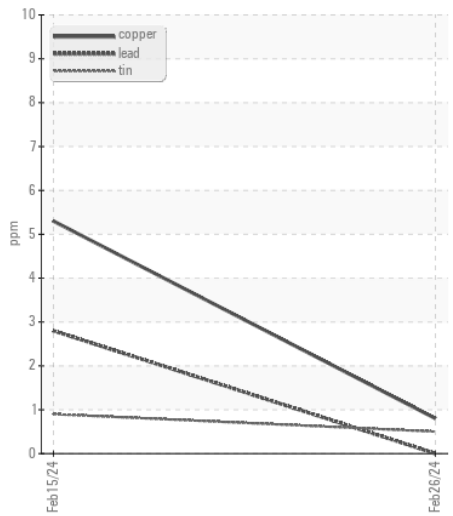

Glycol Contamination



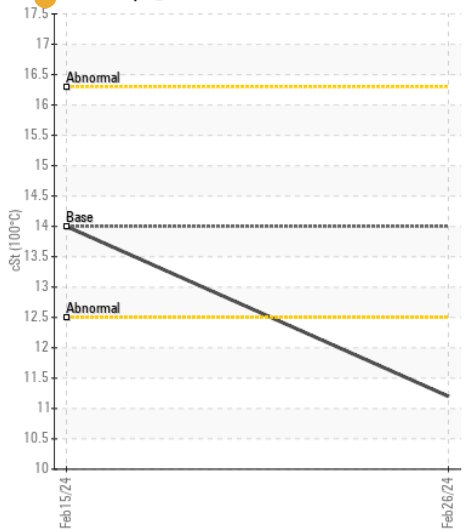

Ferrous Alloys



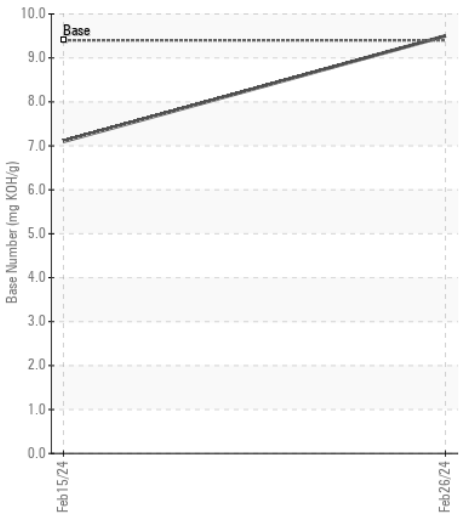

Non-ferrous Metals




Viscosity @ 100°C




Base Number




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : SBP0005489
**Lab Number** : 06102320
**Unique Number** : 10900550
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 27 Feb 2024
**Tested** : 04 Mar 2024
**Diagnosed** : 04 Mar 2024 - Jonathan Hester

**Sapp Bros. Fleet - Clarks Location**
,
US
Contact: Service Manager
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)*