FLEET LUBE 360 OIL DIAGNOSTICS

# OIL ANALYSIS REPORT

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

Machine Id
**2026845**
Component
**Diesel Engine**
Fluid
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.
Please specify the component make and model with your next sample.

## WEAR

All component wear rates are normal.

## CONTAMINATION

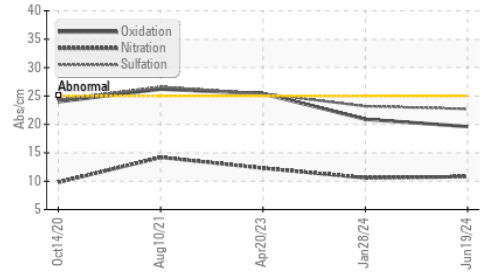
There is no indication of any contamination in the oil.

## FLUID CONDITION

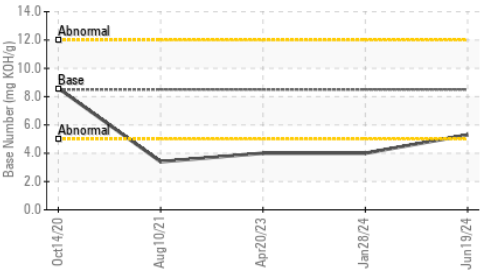
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | PCA0123618 | PCA0116304 | PCA0093039 |
| Sample Date | | Client Info | | 19 Jun 2024 | 28 Jan 2024 | 20 Apr 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | 21 | 24 | 33 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | 3 | 4 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | 1 |
| Copper | ppm | ASTM D5185m | >330 | 26 | 6 | 5 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | 9 | 6 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 6 | 4 |
| Fuel | % | ASTM D3524 | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 0.2 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.8 | 10.6 | 12.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.7 | 23.2 | 25.4 |
| 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 | >75 | 2 | 0 | 3 |
| Boron | ppm | ASTM D5185m | 250 | 9 | 9 | 3 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 8 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 66 | 68 | 63 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 450 | 915 | 842 | 988 |
| Calcium | ppm | ASTM D5185m | 3000 | 1217 | 998 | 1100 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 902 | 774 | 1027 |
| Zinc | ppm | ASTM D5185m | 1350 | 1193 | 1112 | 1283 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3065 | 2406 | 3135 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.6 | 20.9 | 25.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 5.3 | 4.0 | 4.0 |
| Visc @ 100°C | cSt | ASTM D445 | 10.9 | 11.1 | 11.0 | 11.3 |

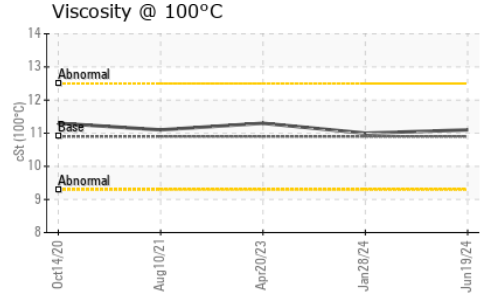
FT-IR (Direct Trend)



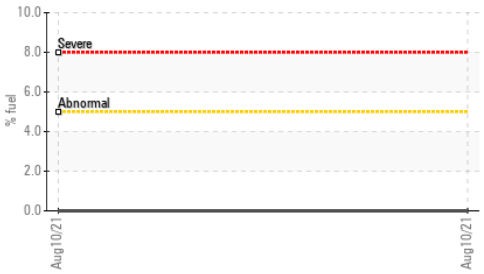

Base Number



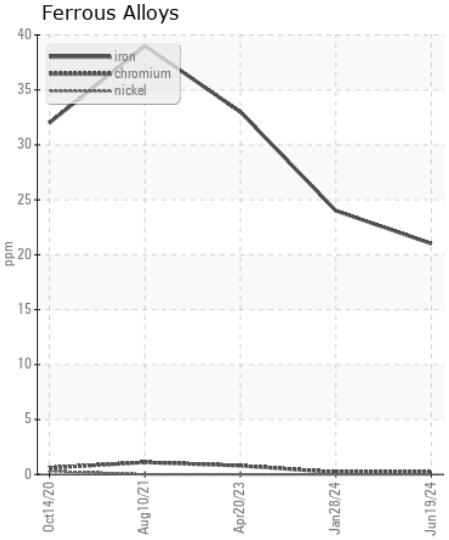

Viscosity @ 100°C



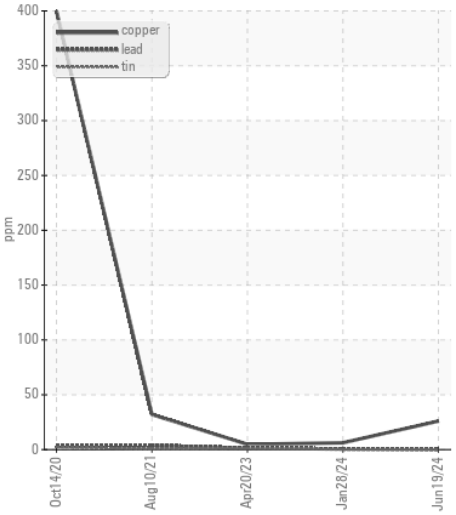

Fuel Dilution



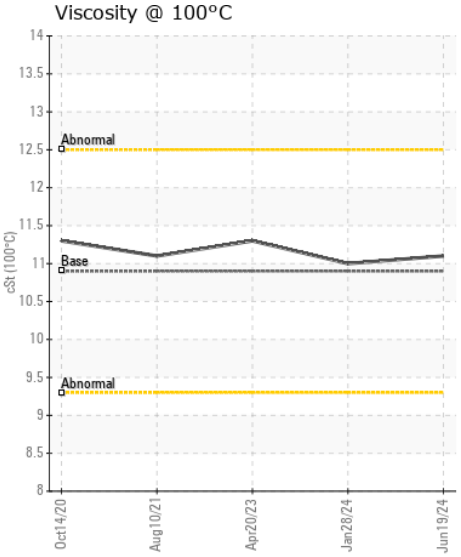

Ferrous Alloys



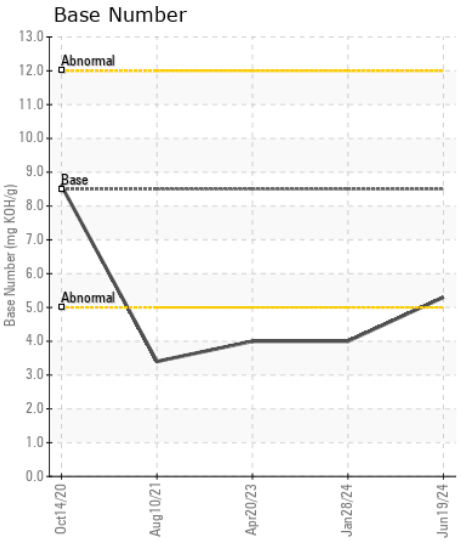

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0123618 **Received** : 18 Jul 2024
**Lab Number** : 06240121 **Tested** : 19 Jul 2024
**Unique Number** : 11128955 **Diagnosed** : 19 Jul 2024 - Wes Davis
**Test Package** : FLEET ( Additional Tests: FuelDilution )

*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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