



OIL ANALYSIS REPORT

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

Area
G.LOPES CONSTRUCTION INC./Off-Road

Machine Id

SW9

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0122635 | PCA23423006 | PCA48440018 |
| Sample Date | | Client Info | | 23 Apr 2024 | 08 Jul 2015 | 07 Nov 2011 |
| Machine Age | hrs | Client Info | | 1459 | 1459 | 1240 |
| Oil Age | hrs | Client Info | | 1459 | 350 | 350 |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | SEVERE |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-------|
| Iron | ppm | ASTM D5185m | >100 | 40 | 12 | ▲ 182 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 1 | ▲ 27 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 5 | 2 | ▲ 30 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 0 | 6 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | ▲ 11 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

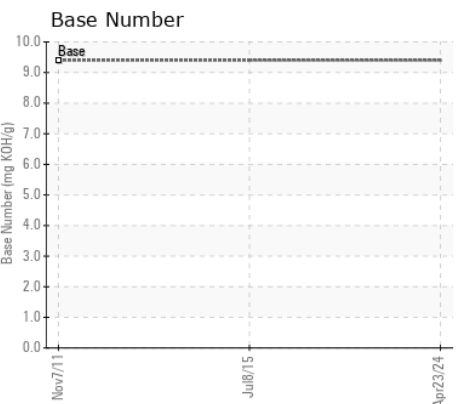
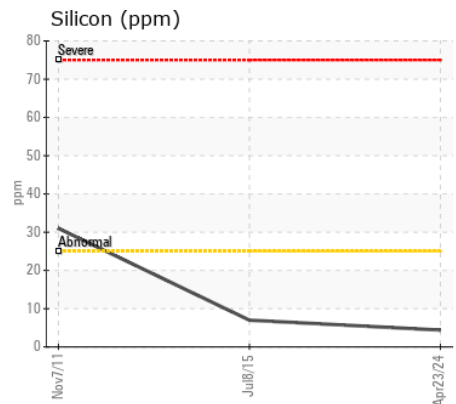
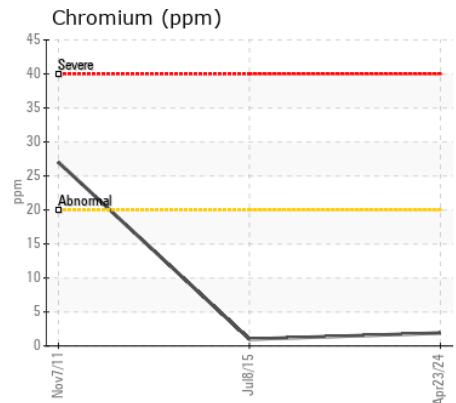
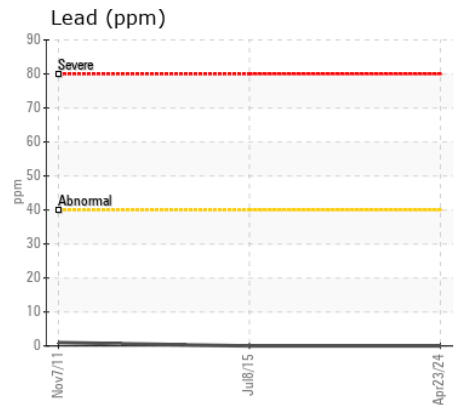
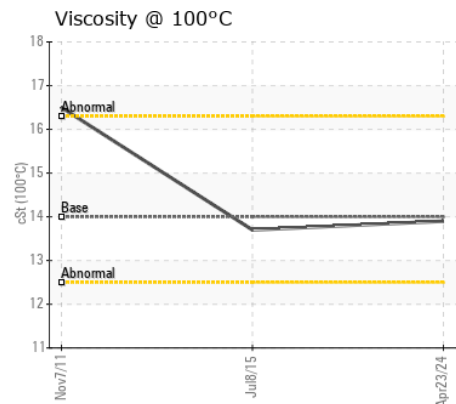
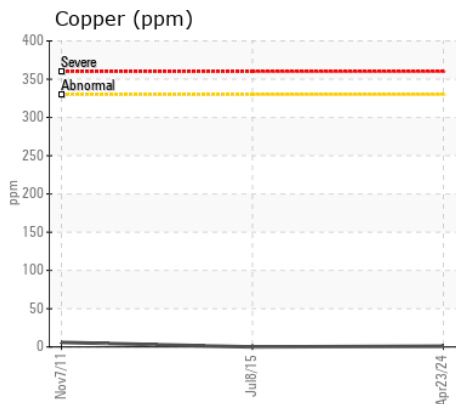
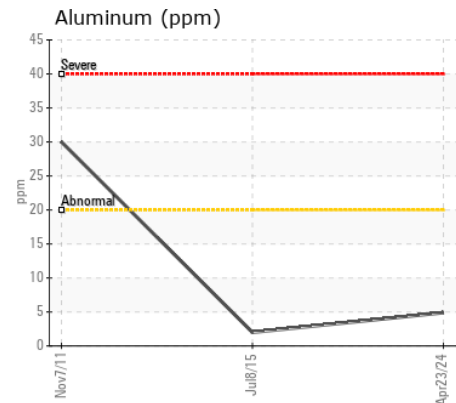
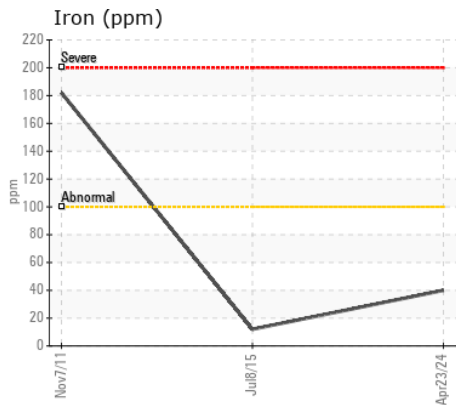
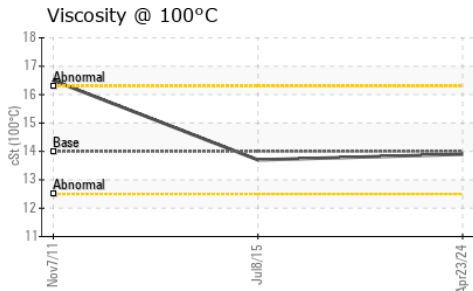
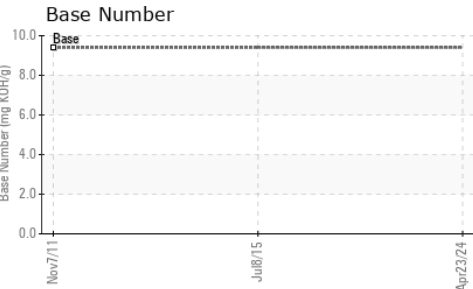
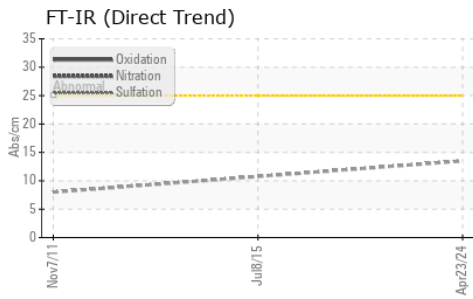
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|------|------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 7 | ▲ 31 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 2 | 22 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | 0.0 | 0.0 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.14 | 1.49 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 4.8 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.3 | --- | --- |
| 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 | --- | --- |

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.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | 9 | 27 |
| Boron | ppm | ASTM D5185m | 0 | 5 | 58 | 37 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 59 | 42 | 50 |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 0 | 984 | 712 | 499 |
| Calcium | ppm | ASTM D5185m | | 1116 | 1355 | 2473 |
| Phosphorus | ppm | ASTM D5185m | | 1041 | 960 | 1244 |
| Zinc | ppm | ASTM D5185m | | 1240 | 1072 | 1255 |
| Sulfur | ppm | ASTM D5185m | | 3685 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.5 | --- | 8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 9.58 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 13.9 | 13.7 | 16.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122635 **Received** : 26 Apr 2024
Lab Number : 06161704 **Tested** : 28 Apr 2024
Unique Number : 10997127 **Diagnosed** : 29 Apr 2024 - Sean Felton
Test Package : MOB 2

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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