



WEAR CHECK

OIL ANALYSIS REPORT

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

Machine Id
4305
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WC0903284 | WC0852132 | --- |
| Sample Date | | Client Info | | 03 Apr 2024 | 27 Sep 2023 | --- |
| Machine Age | mls | Client Info | | 1275 | 7986 | --- |
| Oil Age | mls | Client Info | | 0 | 0 | --- |
| Filter Age | mls | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 7 | 12 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 3 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >330 | 0 | 0 | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

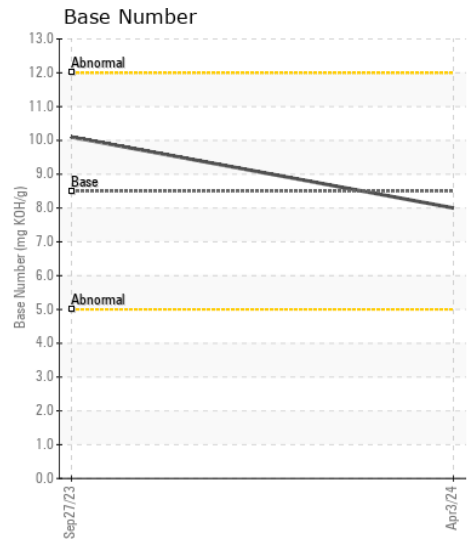
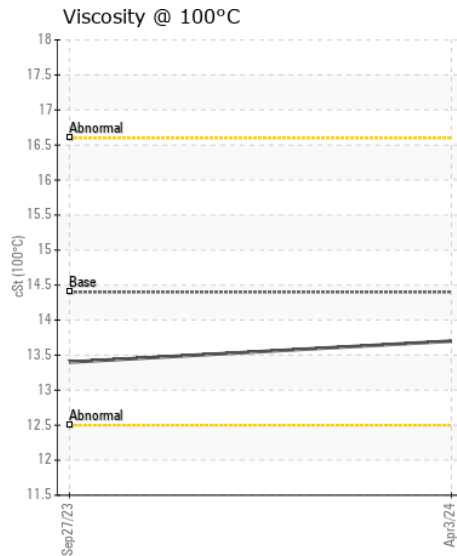
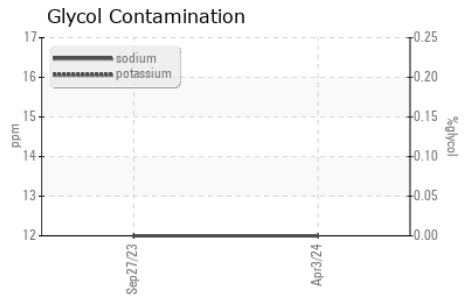
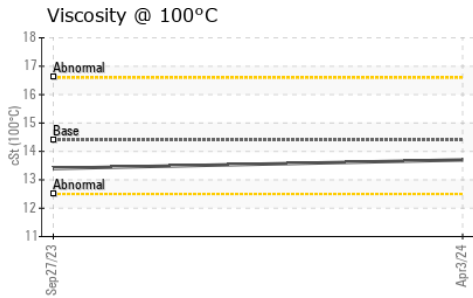
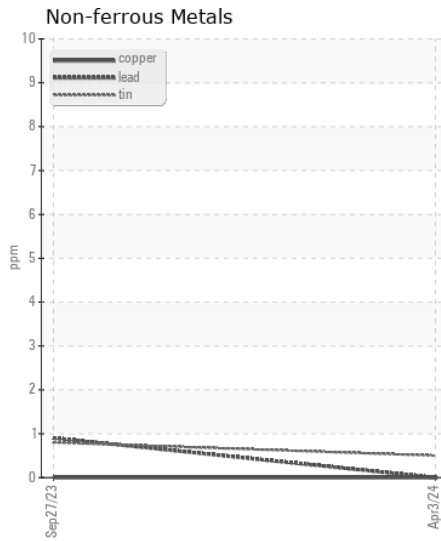
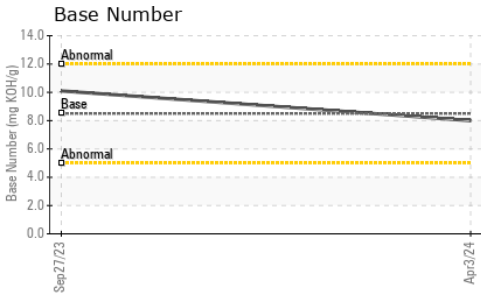
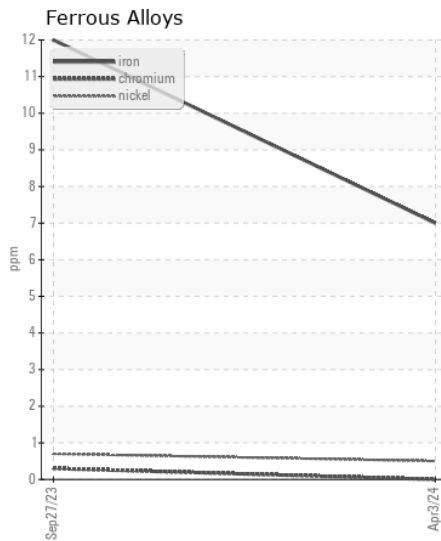
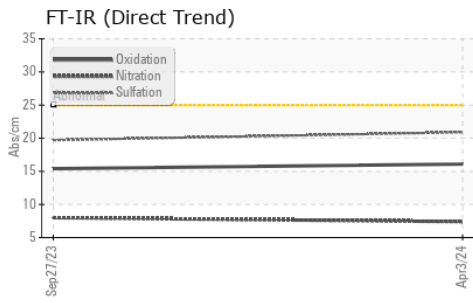
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 8 | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 12 | 12 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | % | *ASTM D2982 | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.5 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.4 | 8.0 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.9 | 19.7 | --- |
| 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 | --- |

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.

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | >158 | 12 | 12 | --- |
| Boron | ppm | ASTM D5185m | 250 | 232 | 5 | --- |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 100 | 52 | 64 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 450 | 320 | 980 | --- |
| Calcium | ppm | ASTM D5185m | 3000 | 1662 | 1098 | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1044 | 1119 | --- |
| Zinc | ppm | ASTM D5185m | 1350 | 1242 | 1389 | --- |
| Sulfur | ppm | ASTM D5185m | 4250 | 4098 | 3463 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.1 | 15.4 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.0 | 10.1 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.7 | 13.4 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0903284 **Received** : 11 Apr 2024
Lab Number : 06146381 **Tested** : 15 Apr 2024
Unique Number : 10976459 **Diagnosed** : 15 Apr 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

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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)