



OIL ANALYSIS REPORT

Sample Rating Trend

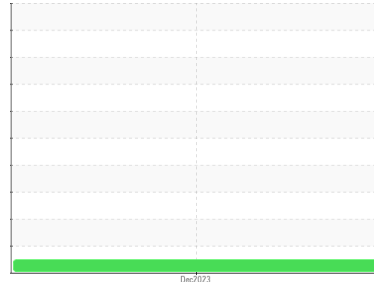
NORMAL



Machine Id
8344R

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 40 (--- QTS)



DIAGNOSIS

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 40. 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.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|--------------------|----------|----------|
| Sample Number | Client Info | IL06063990 | --- | --- |
| Sample Date | Client Info | 19 Dec 2023 | --- | --- |
| Machine Age | hrs Client Info | 0 | --- | --- |
| Oil Age | hrs Client Info | 0 | --- | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | NORMAL | --- | --- |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|----------------|----------|----------|
| Fuel | WC Method >5 | <1.0 | --- | --- |
| Water | WC Method >0.2 | NEG | --- | --- |
| Glycol | WC Method | NEG | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >100 | 62 | --- | --- |
| Chromium | ppm ASTM D5185m >20 | <1 | --- | --- |
| Nickel | ppm ASTM D5185m >4 | 0 | --- | --- |
| Titanium | ppm ASTM D5185m | 0 | --- | --- |
| Silver | ppm ASTM D5185m >3 | 0 | --- | --- |
| Aluminum | ppm ASTM D5185m >20 | 2 | --- | --- |
| Lead | ppm ASTM D5185m >40 | 0 | --- | --- |
| Copper | ppm ASTM D5185m >330 | 1 | --- | --- |
| Tin | ppm ASTM D5185m >15 | 0 | --- | --- |
| Vanadium | ppm ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm ASTM D5185m | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|----------------------|-------------|----------|----------|
| Boron | ppm ASTM D5185m 250 | 0 | --- | --- |
| Barium | ppm ASTM D5185m 10 | 3 | --- | --- |
| Molybdenum | ppm ASTM D5185m 100 | 57 | --- | --- |
| Manganese | ppm ASTM D5185m | 0 | --- | --- |
| Magnesium | ppm ASTM D5185m 450 | 938 | --- | --- |
| Calcium | ppm ASTM D5185m 3000 | 1015 | --- | --- |
| Phosphorus | ppm ASTM D5185m 1150 | 959 | --- | --- |
| Zinc | ppm ASTM D5185m 1350 | 1161 | --- | --- |
| Sulfur | ppm ASTM D5185m 4250 | 3492 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|----------------------|----------|----------|----------|
| Silicon | ppm ASTM D5185m >25 | 4 | --- | --- |
| Sodium | ppm ASTM D5185m >216 | 0 | --- | --- |
| Potassium | ppm ASTM D5185m >20 | 1 | --- | --- |

INFRA-RED

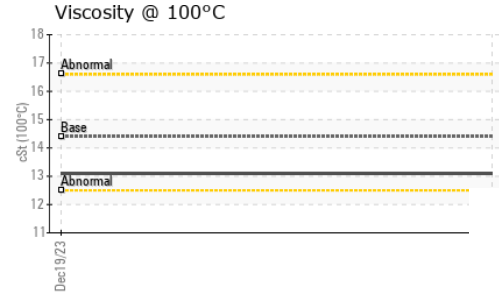
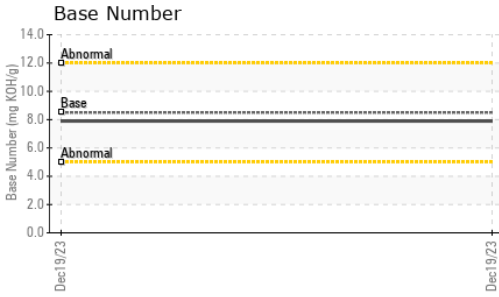
| method | limit/base | current | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot % | % *ASTM D7844 >3 | 2.5 | --- | --- |
| Nitration | Abs/cm *ASTM D7624 >20 | 12.4 | --- | --- |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | 24.7 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation | Abs/.1mm *ASTM D7414 >25 | 19.6 | --- | --- |
| Base Number (BN) | mg KOH/g ASTM D2896 8.5 | 7.9 | --- | --- |



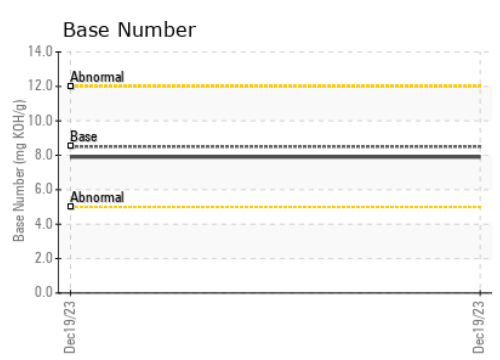
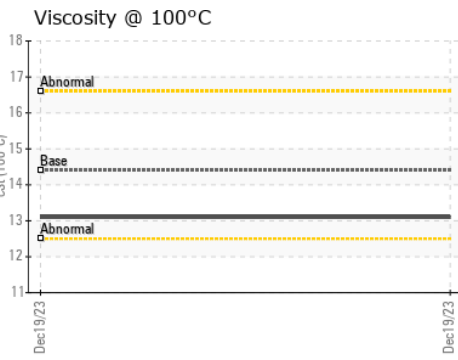
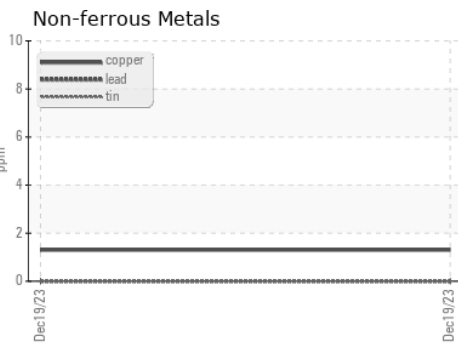
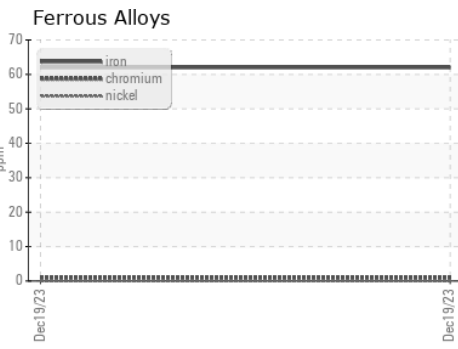
OIL ANALYSIS REPORT



| 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 | 14.4 | 13.1 | --- | --- |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06063990 **Recieved** : 18 Jan 2024
Lab Number : **06063990** **Diagnosed** : 19 Jan 2024
Unique Number : 10835372 **Diagnostician** : Wes Davis
Test Package : FLEET

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)