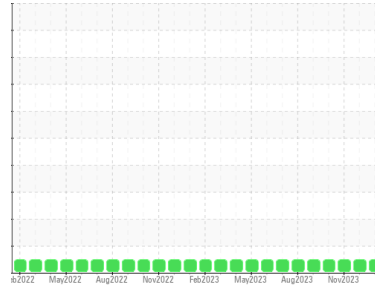




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
OKLAHOMA

Machine Id
6794

Component
Diesel Engine

Fluid
MYSTIK JT-8 SYN SUPER HD 15W50 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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 | | | WC0810716 | WC0810719 | WCMFA66693 |
| Sample Date | Client Info | | | 05 Jan 2024 | 05 Dec 2023 | 08 Nov 2023 |
| Machine Age | hrs | Client Info | | 5243 | 5083 | 4962 |
| Oil Age | hrs | Client Info | | 3106 | 2946 | 2825 |
| Oil Changed | Client Info | | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >100 | 54 | 46 | 42 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| 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 | 7 | 7 | 7 |
| Lead | ppm | ASTM D5185m | >40 | 26 | 22 | 18 |
| Copper | ppm | ASTM D5185m | >330 | 64 | 59 | 54 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 2 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 18 | 15 | 13 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 841 | 758 | 776 |
| Calcium | ppm | ASTM D5185m | | 1240 | 1133 | 1132 |
| Phosphorus | ppm | ASTM D5185m | | 993 | 952 | 903 |
| Zinc | ppm | ASTM D5185m | | 1279 | 1207 | 1203 |
| Sulfur | ppm | ASTM D5185m | | 2585 | 2597 | 2267 |

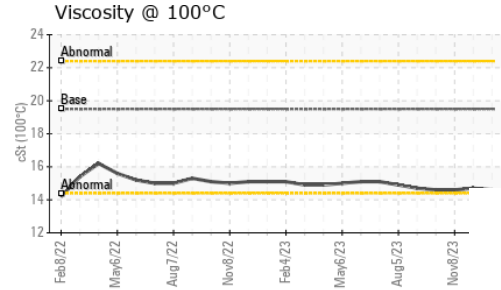
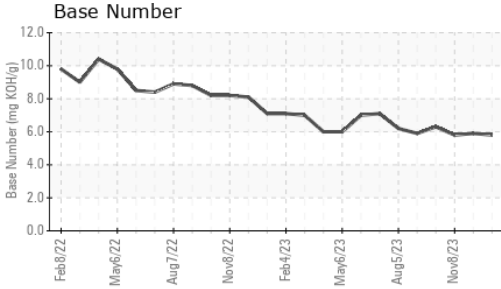
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 12 | 11 | 11 |
| Sodium | ppm | ASTM D5185m | | 19 | 17 | 15 |
| Potassium | ppm | ASTM D5185m | >20 | 19 | 18 | 15 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | >3 | 1.4 | 1.4 | 1.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 12.6 | 12.5 | 12.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 27.2 | 26.8 | 26.7 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.1 | 23.9 | 23.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.8 | 5.9 | 5.8 |



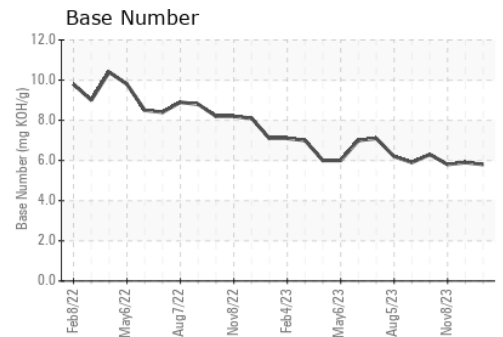
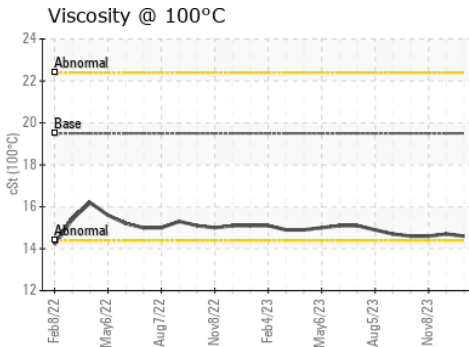
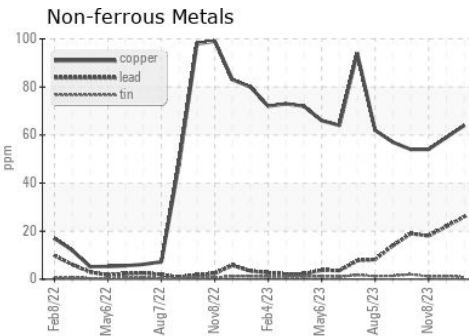
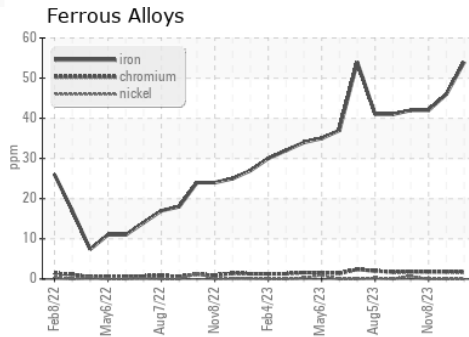
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| 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 |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 19.5 | 14.6 | 14.7 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0810716 Recieved : 10 Jan 2024
 Lab Number : 06057229 Diagnosed : 11 Jan 2024
 Unique Number : 10823178 Diagnostician : Wes Davis
 Test Package : FLEET

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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