# FLEET WEAR CHECK
## OIL ANALYSIS REPORT

Machine Id
## E-ONE ENGINE 73
Component
## Hydraulic System
Fluid
## NOT GIVEN (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | WC0930933 | WC0826517 | WC0464763 |
| Sample Date | | Client Info | | 24 Apr 2024 | 29 Jun 2023 | 29 Jun 2020 |
| Machine Age | hrs | Client Info | | 964 | 0 | 4831 |
| Oil Age | hrs | Client Info | | 5498 | 0 | 0 |
| Filter Age | hrs | Client Info | | 5498 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

## WEAR

All component wear rates are normal.

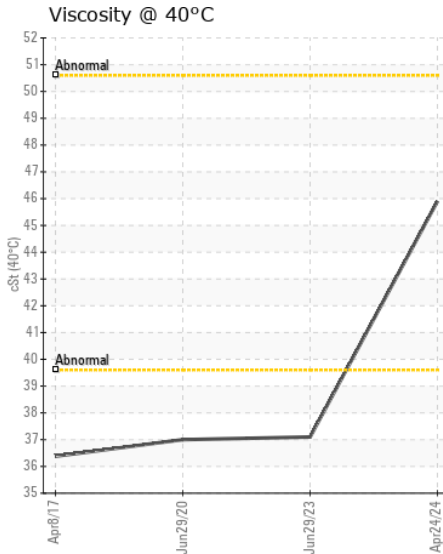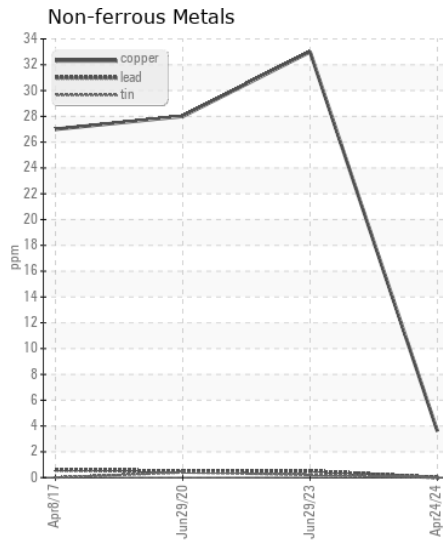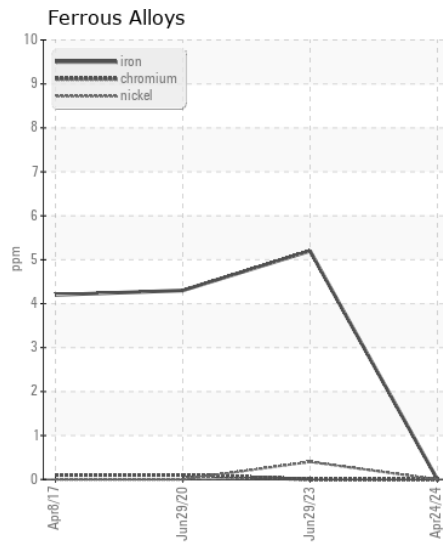| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >20 | 0 | 5 | 4 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 4 | 33 | 28 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

## CONTAMINATION

There is no indication of any contamination in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >20 | <1 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | VLITE |
| 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 | >0.1 | NEG | NEG | NEG |

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sodium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Boron | ppm | ASTM D5185m | | 0 | 3 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 2 | 1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | 137 | 342 | 336 |
| Phosphorus | ppm | ASTM D5185m | | 579 | 474 | 456 |
| Zinc | ppm | ASTM D5185m | | 757 | 661 | 589 |
| Sulfur | ppm | ASTM D5185m | | 1767 | 2433 | 1700 |
| Visc @ 40°C | cSt | ASTM D445 | | 45.9 | 37.1 | 37.0 |

## Viscosity @ 40°C



## Ferrous Alloys



## Non-ferrous Metals



## Viscosity @ 40°C
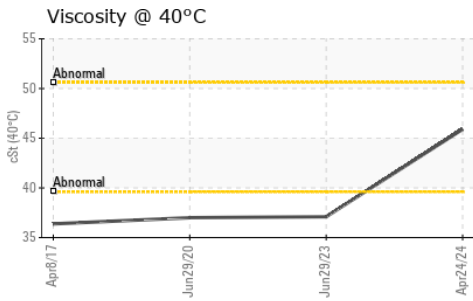
| | | | |
|---|---|---|---|
| **Laboratory** | : WearCheck USA - 501 Madison Ave., Cary, NC 27513 | | **CLARKSVILLE FIRE DEPT** |
| **Sample No.** | : WC0930933 | **Received** : 10 May 2024 | 2249 SAM GWIN DR |
| **Lab Number** | : 06176419 | **Tested** : 13 May 2024 | CLARKSVILLE, IN |
| **Unique Number** | : 11022472 | **Diagnosed** : 13 May 2024 - Wes Davis | US 47129 |
| **Test Package** | : FLEET | | Contact: JAMES HENDRICK |

*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.*     T: (812)283-7619
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*     F: