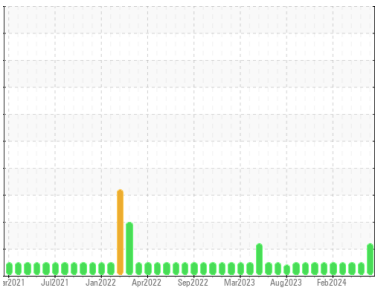
# OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES

Area
**WP08 [1980896]**
Machine Id
**WP08SW03 (S/N 1715 200)**
Component
**Gearbox**
Fluid
**MOBIL SHC 632 (2 GAL)**

## DIAGNOSIS

**Recommendation**
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Monthly oil change and sample )

**Wear**
All component wear rates are normal.

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0915682** | WC0887666 | WC0887671 |
| Sample Date | | Client Info | | **06 Jun 2024** | 25 Apr 2024 | 28 Mar 2024 |
| Machine Age | hrs | Client Info | | **881** | 8708 | 7983 |
| Oil Age | hrs | Client Info | | **881** | 725 | 669 |
| Oil Changed | | Client Info | | **Changed** | Changed | Changed |
| Sample Status | | | | **ATTENTION** | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >200 | **77** | 3 | 4 |
| Chromium | ppm | ASTM D5185m | >15 | **<1** | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >15 | **1** | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Silver | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | **16** | 3 | 3 |
| Lead | ppm | ASTM D5185m | >100 | **<1** | 0 | 1 |
| Copper | ppm | ASTM D5185m | >200 | **27** | <1 | <1 |
| Tin | ppm | ASTM D5185m | >25 | **4** | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | **<1** | 0 | 1 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Barium | ppm | ASTM D5185m | | **1** | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | **2** | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | **134** | 0 | 4 |
| Phosphorus | ppm | ASTM D5185m | | **411** | 463 | 463 |
| Zinc | ppm | ASTM D5185m | | **99** | <1 | 10 |
| Sulfur | ppm | ASTM D5185m | | **0** | 30 | 0 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **18** | 6 | 6 |
| Sodium | ppm | ASTM D5185m | | **2** | 1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | <1 | 1 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.29** | 0.47 | 0.51 |

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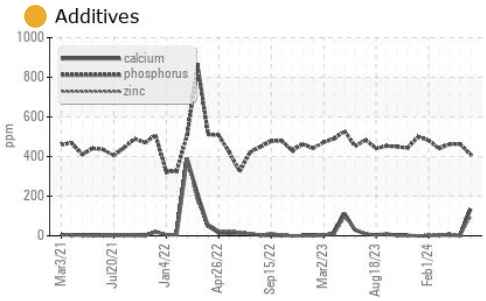
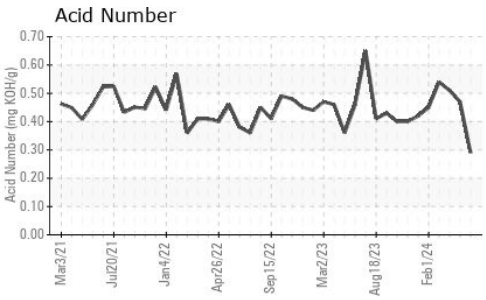
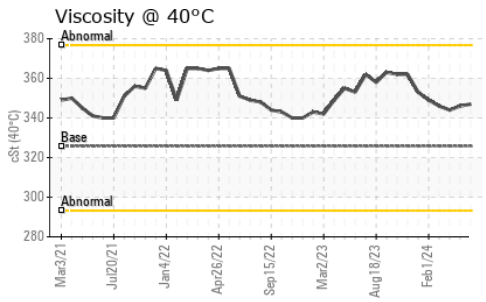


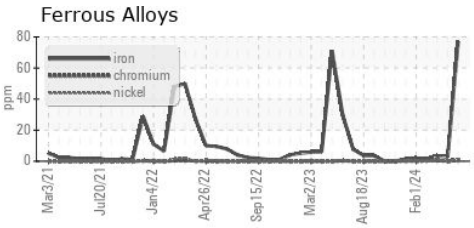



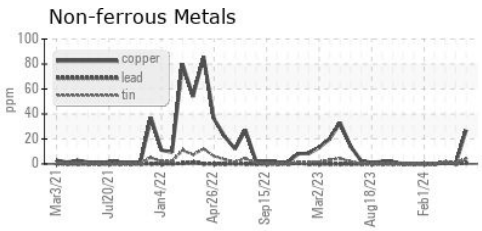

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 | >0.2 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

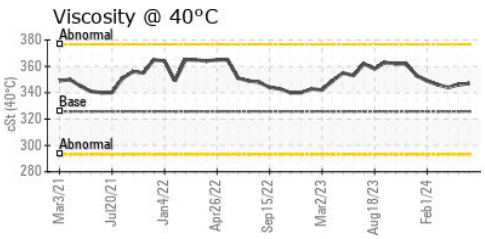
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 325.8 | **347** | 346 | 344 |

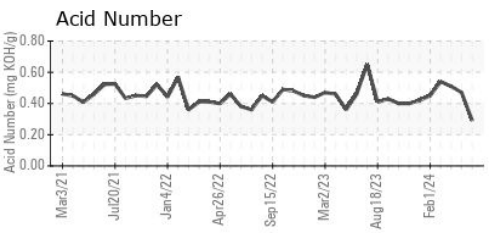
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0915682
**Lab Number** : 06210848
**Unique Number** : 11083712
**Test Package** : IND 2

**Received** : 14 Jun 2024
**Tested** : 21 Jun 2024
**Diagnosed** : 21 Jun 2024 - Jonathan Hester

*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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