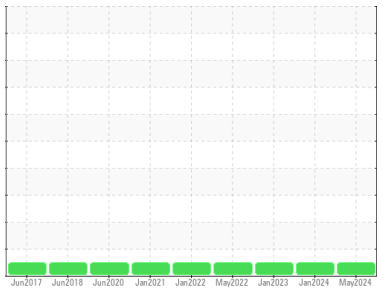
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
## KANSAS/44/Sh-Bulk Tanks
Machine Id
## Shop 3 Tanks [KANSAS^44^Sh-Bulk Tanks]
Component
**3 Gear Lube System**
Fluid
**MOBIL MOBILTRANS HD 50 (--- GAL)**

## DIAGNOSIS

**Recommendation**
This is a baseline read-out on the submitted sample.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0918046** | WC0862547 | WC0746057 |
| Sample Date | | Client Info | | **10 May 2024** | 03 Jan 2024 | 17 Jan 2023 |
| Machine Age | hrs | Client Info | | **0** | 0 | 6927 |
| Oil Age | hrs | Client Info | | **0** | 0 | 6927 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >150 | **1** | 0 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Silver | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **1** | 2 | <1 |
| Lead | ppm | ASTM D5185m | >100 | **<1** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | **0** | 0 | 0 |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **<1** | 0 | 0 |

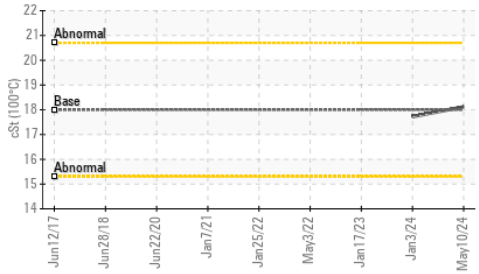
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **8** | 2 | 2 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | **12** | 10 | 10 |
| Calcium | ppm | ASTM D5185m | | **3453** | 3245 | 2765 |
| Phosphorus | ppm | ASTM D5185m | | **937** | 966 | 921 |
| Zinc | ppm | ASTM D5185m | | **1129** | 1085 | 1212 |
| Sulfur | ppm | ASTM D5185m | | **13101** | 11914 | 7214 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **8** | 8 | 10 |
| Sodium | ppm | ASTM D5185m | | **1** | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | <1 | <1 |
| Water | % | ASTM D6304 | >0.1 | **NEG** | NEG | NEG |

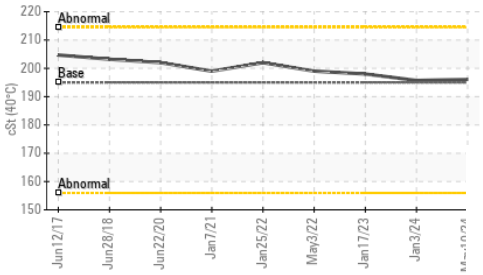
| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 | >0.1 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

# OIL ANALYSIS REPORT

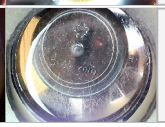
Viscosity @ 100°C




Viscosity @ 40°C

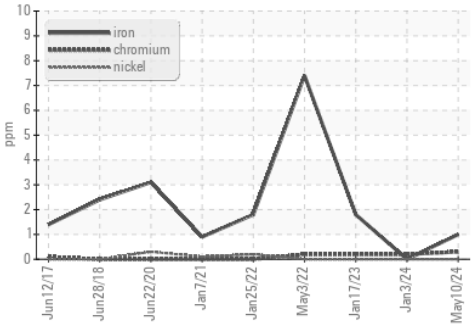



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 195 | **196.1** | 195.7 | 198 |
| Visc @ 100°C | cSt | ASTM D445 | 18.0 | **18.12** | 17.72 | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 100 | **101** | 98 | --- |

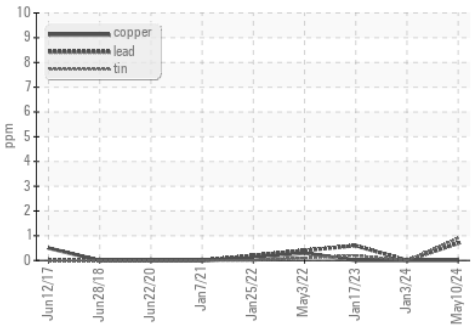
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

## GRAPHS

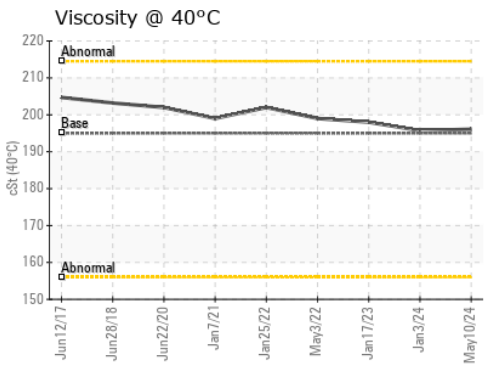
Ferrous Alloys




Non-ferrous Metals




Viscosity @ 40°C




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0918046
**Lab Number** : 06183255
**Unique Number** : 11034581
**Test Package** : CONST ( Additional Tests: KF, KV100, VI )

**Received** : 17 May 2024
**Tested** : 22 May 2024
**Diagnosed** : 22 May 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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Report Id: SHEWIC [WUSCAR] 06183255 (Generated: 05/22/2024 07:51:16) Rev: 1

Submitted By: KEVIN HOHEISEL