MOB II WEAR CHECK

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
## FREIGHTLINER 304H
Component
## Hydraulic System
Fluid
## AW HYDRAULIC OIL ISO 32 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

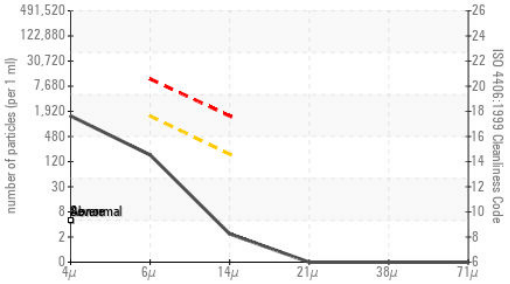
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

## FLUID CONDITION

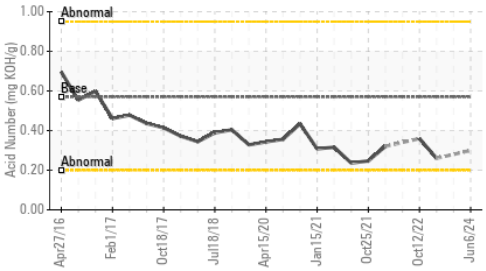
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | KL0014453 | KL0013268 | KL0012597 |
| Sample Date | | Client Info | | 06 Jun 2024 | 01 Oct 2023 | 12 Jul 2023 |
| Machine Age | hrs | Client Info | | 11529 | 10921 | 10512 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >40 | 0 | 0 | 1 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >8 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | | 1305 | --- | 3159 |
| Particles >6µm | | ASTM D7647 | >1300 | 153 | --- | 619 |
| Particles >14µm | | ASTM D7647 | >160 | 2 | --- | 51 |
| Particles >21µm | | ASTM D7647 | >40 | 0 | --- | 17 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | --- | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >17/14 | 14/9 | --- | 16/13 |
| 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 |
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Boron | ppm | ASTM D5185m | 5 | <1 | 0 | <1 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | 1 | 1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | 11 | 12 | 13 |
| Calcium | ppm | ASTM D5185m | 200 | 86 | 92 | 91 |
| Phosphorus | ppm | ASTM D5185m | 300 | 337 | 315 | 314 |
| Zinc | ppm | ASTM D5185m | 370 | 420 | 420 | 414 |
| Sulfur | ppm | ASTM D5185m | 2500 | 1160 | 967 | 1022 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.30 | --- | 0.26 |
| Visc @ 40°C | cSt | ASTM D445 | 32 | 47.6 | 44.8 | 45.2 |

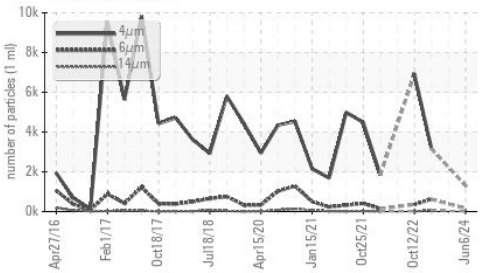
Particle Count



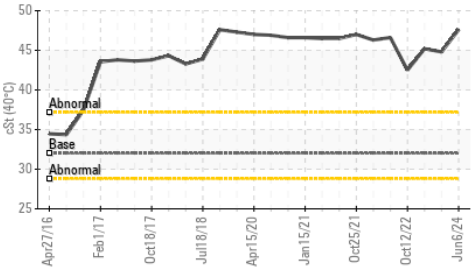

Acid Number



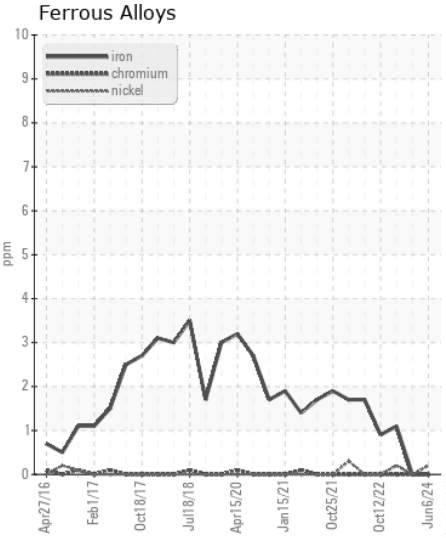

Particle Trend



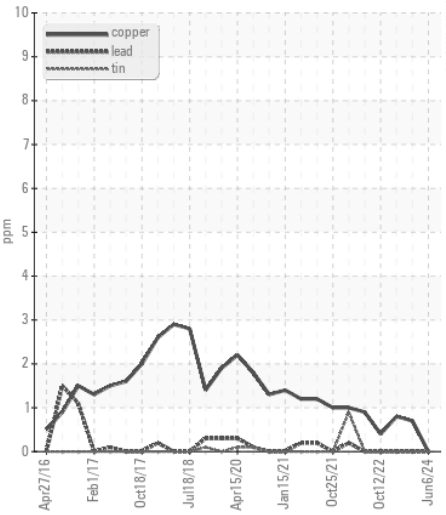

Viscosity @ 40°C



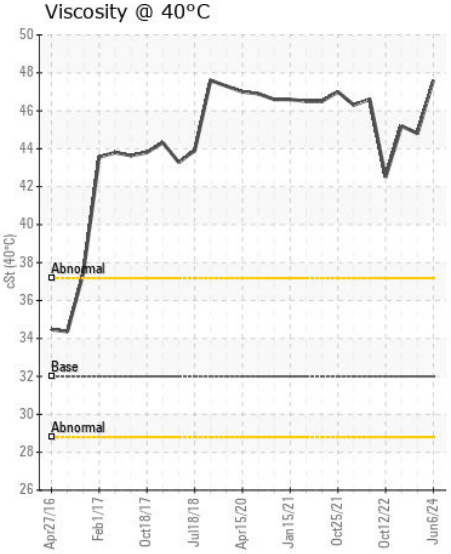

Ferrous Alloys



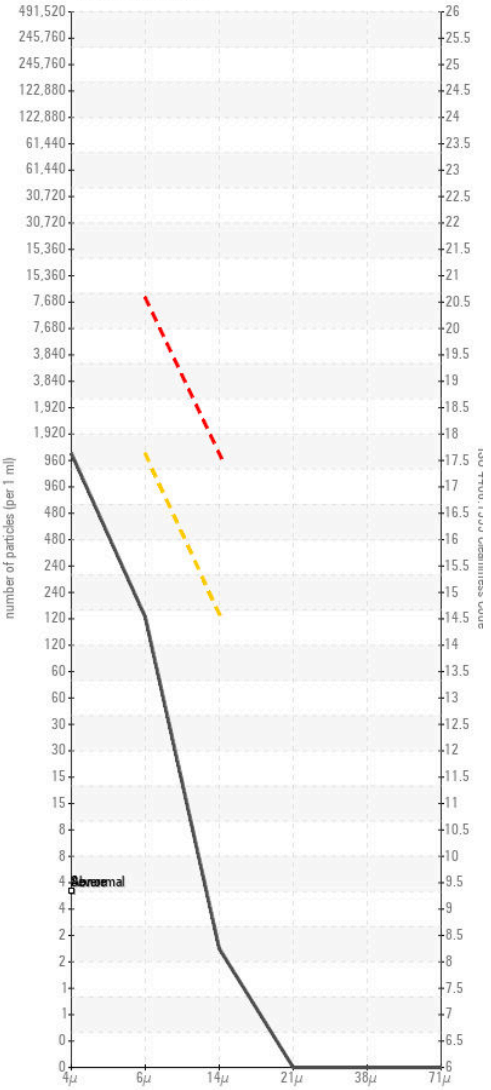

Non-ferrous Metals



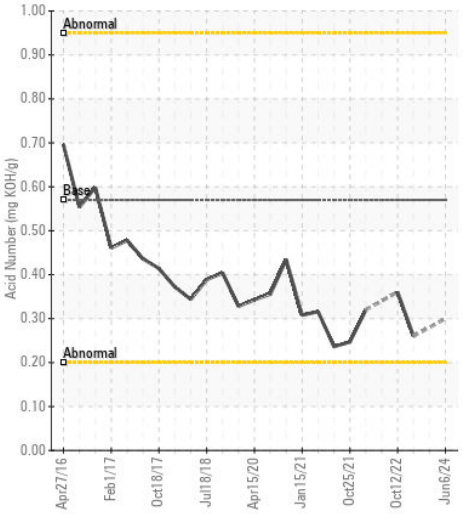

Viscosity @ 40°C




Particle Count




Acid Number




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KL0014453
**Lab Number** : 06226778
**Unique Number** : 11110271
**Test Package** : MOB 2

**Received** : 02 Jul 2024
**Tested** : 03 Jul 2024
**Diagnosed** : 05 Jul 2024 - Doug Bogart

Certificate L2367

*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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