CONST

WEAR CHECK

OIL ANALYSIS REPORT

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

Area
**2M34**
Machine Id
**FREIGHTLINER M2 106 JTK9828**
Component
**Hydraulic System**
Fluid
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

## WEAR

All component wear rates are normal.

## CONTAMINATION

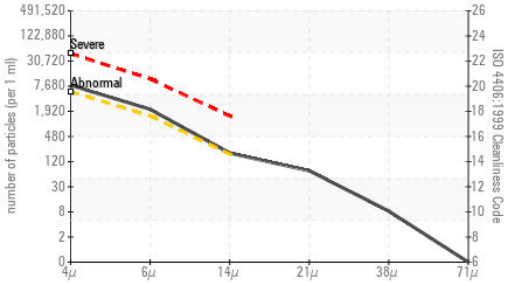
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

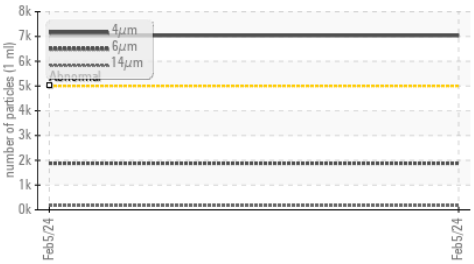
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | ARI0006849 | --- | --- |
| Sample Date | | Client Info | | 05 Feb 2024 | --- | --- |
| Machine Age | mls | Client Info | | 11824 | --- | --- |
| Oil Age | mls | Client Info | | 0 | --- | --- |
| Filter Age | mls | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | N/A | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | ATTENTION | --- | --- |
| Iron | ppm | ASTM D5185m | >40 | 0 | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >8 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 7035 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 1878 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 169 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | ▲ 64 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 7 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 20/18/15 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | LIGHT | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185m | | 0 | --- | --- |
| Boron | ppm | ASTM D5185m | 5 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 5 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 25 | 0 | --- | --- |
| Calcium | ppm | ASTM D5185m | 200 | 47 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 300 | 331 | --- | --- |
| Zinc | ppm | ASTM D5185m | 370 | 417 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 2500 | 744 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.34 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 32 | 32.2 | --- | --- |

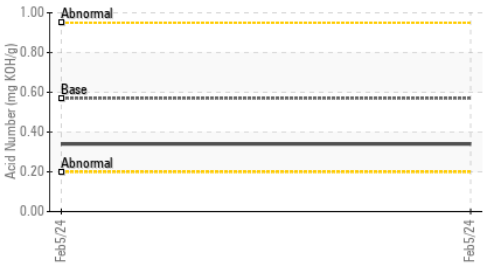
## Particle Count



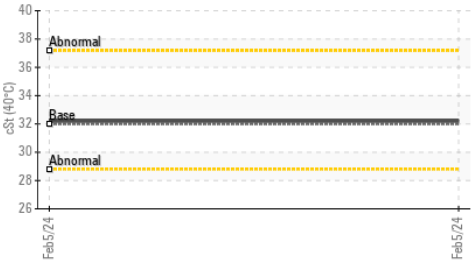

## Particle Trend



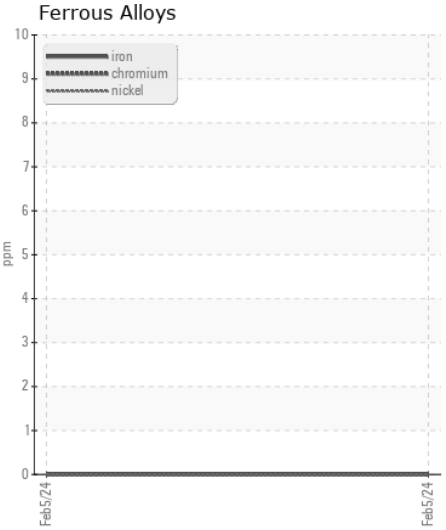

## Acid Number



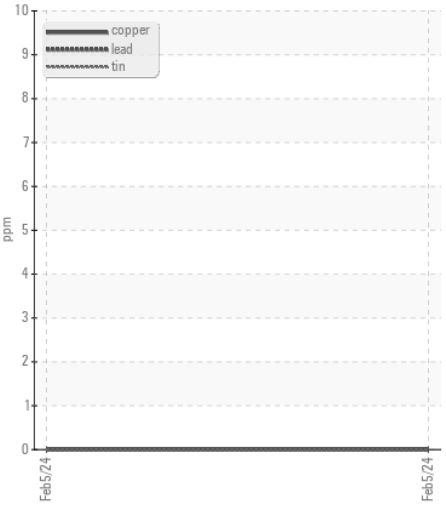

## Viscosity @ 40°C



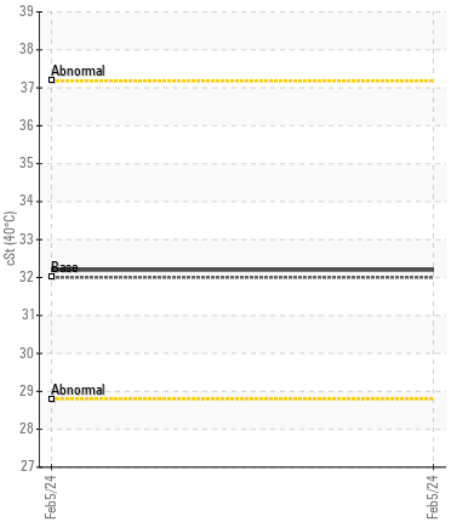

## Ferrous Alloys



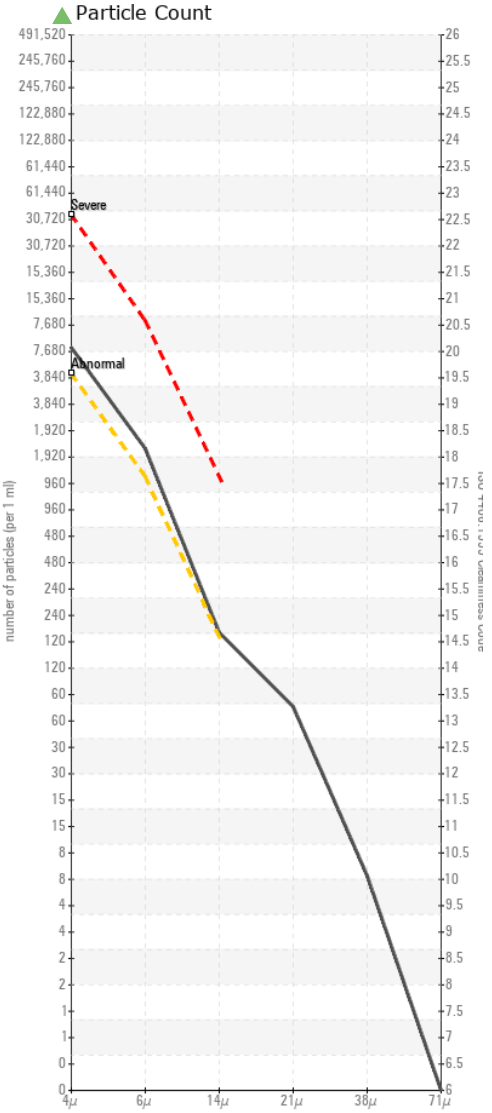

## Non-ferrous Metals



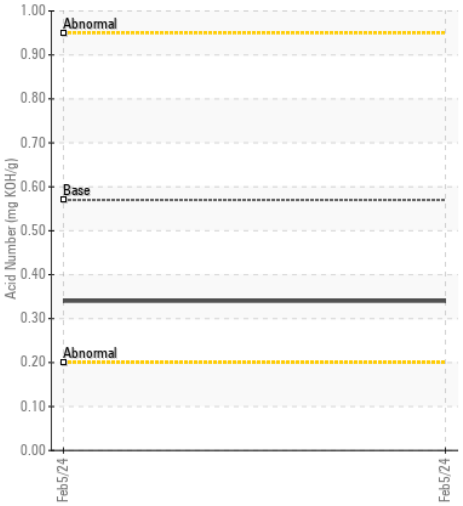

## Viscosity @ 40°C




## Particle Count




## Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : ARI0006849
**Lab Number** : 06083047
**Unique Number** : 10870492
**Test Package** : CONST

**Received** : 07 Feb 2024
**Tested** : 08 Feb 2024
**Diagnosed** : 08 Feb 2024 - Wes Davis

*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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