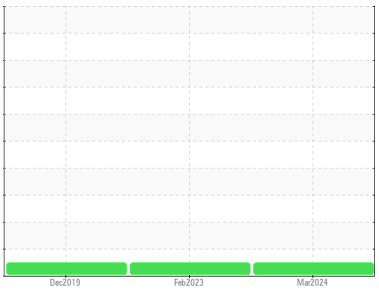
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
KEMP QUARRIES / BCS - MILL CREEK [66781]
Machine Id
TTT008
Component
Hydraulic System
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor. ( Customer Sample Comment: PM-1 sampled fluid )

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

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

**Fluid Condition**
The condition of the fluid is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **PCA0108978** | PCA0086699 | PCA46228011 |
| Sample Date | | Client Info | | **11 Mar 2024** | 02 Feb 2023 | 05 Dec 2019 |
| Machine Age | hrs | Client Info | | **7033** | 6859 | 6341 |
| Oil Age | hrs | Client Info | | **7033** | 6859 | 0 |
| Oil Changed | | Client Info | | **N/A** | Changed | N/A |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.1 | **NEG** | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >20 | **2** | 3 | 6 |
| Chromium | ppm | ASTM D5185m | >10 | **<1** | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **2** | 0 | 3 |
| Lead | ppm | ASTM D5185m | >10 | **0** | <1 | 1 |
| Copper | ppm | ASTM D5185m | >75 | **4** | 8 | 19 |
| Tin | ppm | ASTM D5185m | >10 | **<1** | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | <1 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 0 | **1** | 12 | 45 |
| Barium | ppm | ASTM D5185m | 0 | **0** | 7 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | **1** | 5 | 25 |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | **15** | 113 | 362 |
| Calcium | ppm | ASTM D5185m | | **113** | 406 | 1484 |
| Phosphorus | ppm | ASTM D5185m | | **357** | 414 | 784 |
| Zinc | ppm | ASTM D5185m | | **464** | 512 | 762 |
| Sulfur | ppm | ASTM D5185m | | **964** | 1379 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >20 | **2** | 2 | 9 |
| Sodium | ppm | ASTM D5185m | | **0** | 0 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | **1** | 2 | 1 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | **NEG** | NEG | --- |
| Free Water | scalar | *Visual | | **NEG** | NEG | --- |

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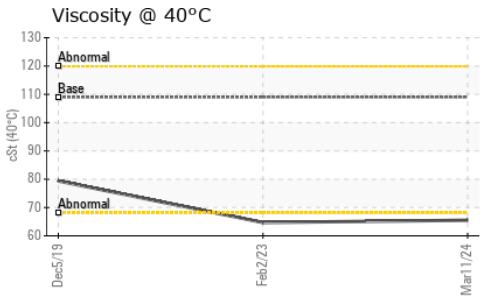
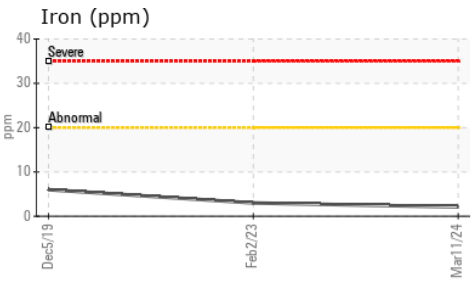
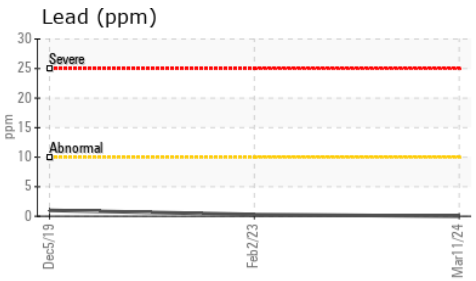


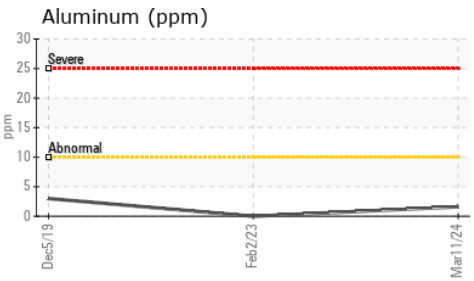

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 109 | **65.5** | 64.7 | 79.4 |

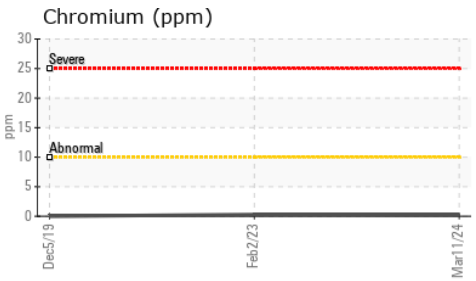
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

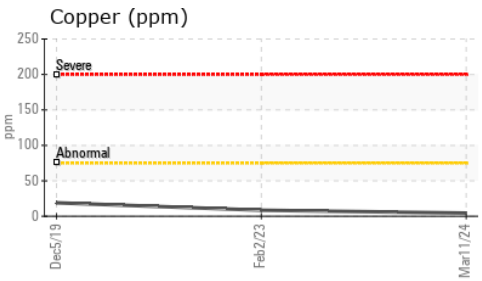
## GRAPHS

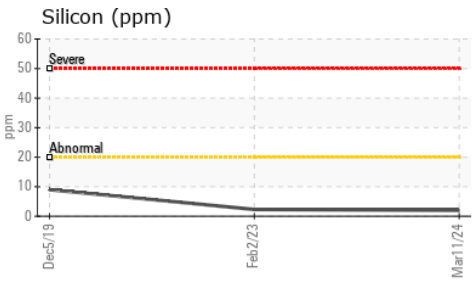


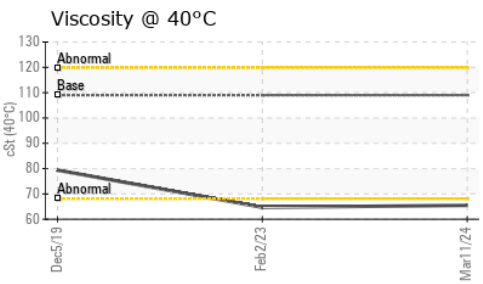



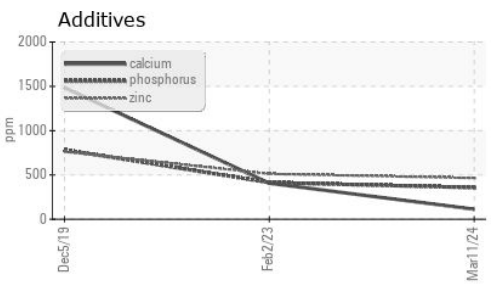




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0108978
**Lab Number** : 06121865
**Unique Number** : 10936016
**Test Package** : MOB 1

**Received** : 18 Mar 2024
**Tested** : 19 Mar 2024
**Diagnosed** : 21 Mar 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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