MOB II WEAR CHECK

OIL ANALYSIS REPORT

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

Area
# PCS - PORTABLE CRUSHING SERVICES
Machine Id
# KOMATSU TH06 - PCS
Component
## Diesel Engine
Fluid
## CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

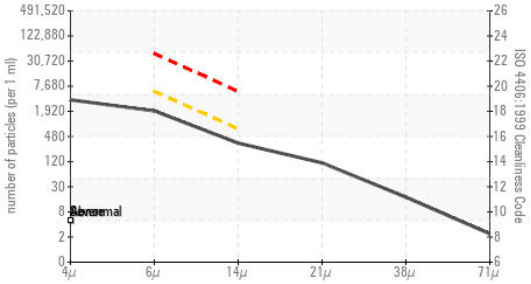
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

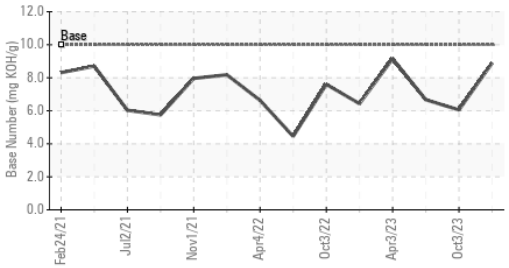
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | KL0014080 | KL0013015 | KLMFA14362 |
| Sample Date | | Client Info | | 10 Jan 2024 | 03 Oct 2023 | 29 Jun 2023 |
| Machine Age | hrs | Client Info | | 6773 | 6524 | 6267 |
| Oil Age | hrs | Client Info | | 50 | 1039 | 782 |
| Filter Age | hrs | Client Info | | 50 | 1039 | 782 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | 4 | 65 | 51 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 2 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 0 | 3 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 9 | 7 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| 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 | >25 | 6 | 10 | 9 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 19 | 16 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 2.8 | 2.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 4.5 | 9.7 | 10.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.0 | 26.3 | 26.8 |
| Particles >4µm | | ASTM D7647 | | 3158 | 6472 | 1488 |
| Particles >6µm | | ASTM D7647 | >5000 | 1720 | 3526 | 810 |
| Particles >14µm | | ASTM D7647 | >640 | 293 | 600 | 138 |
| Particles >21µm | | ASTM D7647 | >160 | 99 | 202 | 46 |
| Particles >38µm | | ASTM D7647 | >40 | 15 | 31 | 7 |
| Particles >71µm | | ASTM D7647 | >10 | 2 | 3 | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >19/16 | 18/15 | 19/16 | 17/14 |
| 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 |
| Sodium | ppm | ASTM D5185m | | 0 | 14 | 11 |
| Boron | ppm | ASTM D5185m | | 395 | 74 | 160 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 82 | 97 | 94 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 357 | 436 | 412 |
| Calcium | ppm | ASTM D5185m | | 1393 | 1547 | 1580 |
| Phosphorus | ppm | ASTM D5185m | 760 | 973 | 982 | 960 |
| Zinc | ppm | ASTM D5185m | 800 | 1187 | 1252 | 1163 |
| Sulfur | ppm | ASTM D5185m | 3000 | 3633 | 3874 | 4146 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.1 | 18.0 | 20.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10 | 8.89 | 6.05 | 6.67 |
| Visc @ 100°C | cSt | ASTM D445 | 14.6 | 14.6 | 14.8 | 14.9 |

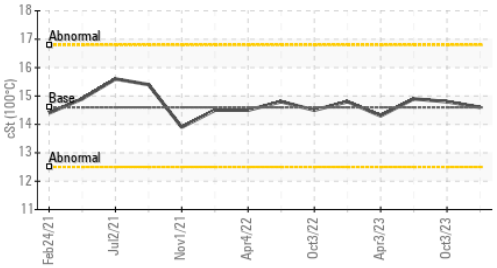
Particle Count



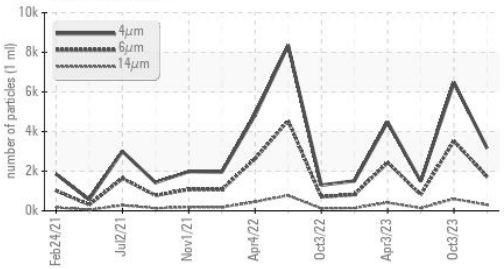

Base Number



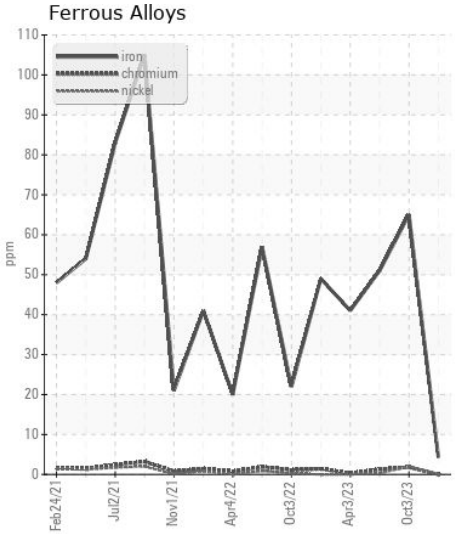

Viscosity @ 100°C



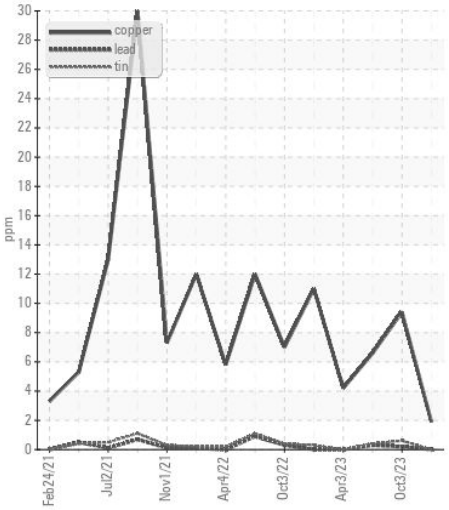

Particle Trend



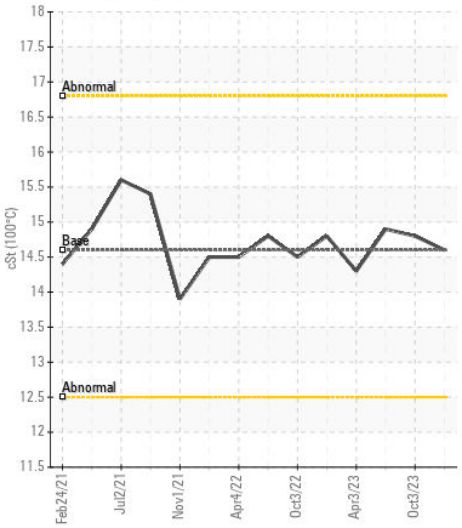

Ferrous Alloys



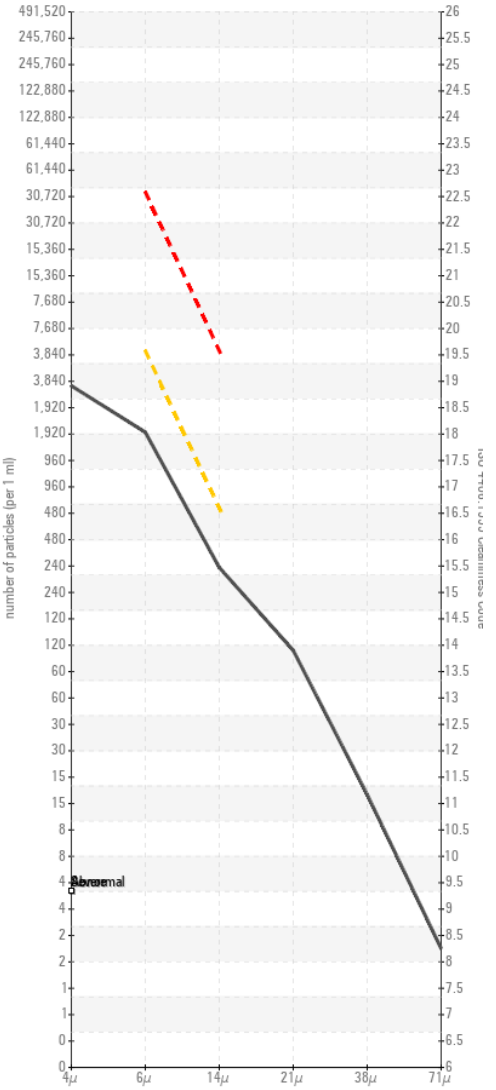

Non-ferrous Metals



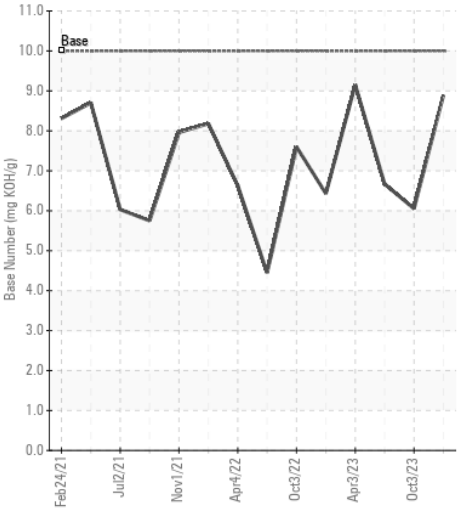

Viscosity @ 100°C




Particle Count




Base Number




Certificate L2367

| | | | |
|---|---|---|---|
| **Laboratory** | : WearCheck USA - 501 Madison Ave., Cary, NC 27513 | | |
| **Sample No.** | : KL0014080 | **Recieved** | : 16 Jan 2024 |
| **Lab Number** | : 06061360 | **Diagnosed** | : 18 Jan 2024 |
| **Unique Number** | : 10832742 | **Diagnostician** | : Jonathan Hester |
| **Test Package** | : MOB 2 ( Additional Tests: PrtCount ) | | |

*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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