MOB II

VOLVO

# OIL ANALYSIS REPORT

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

Area
**[SPM702823]**
Machine Id
**VOLVO L120H 633335**
Component
**Hydraulic System**
Fluid
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

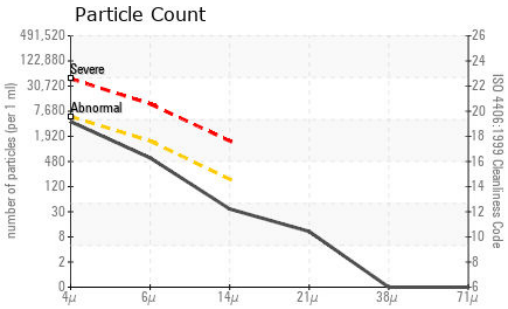
## CONTAMINATION

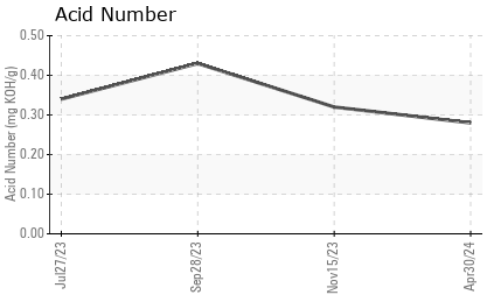
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

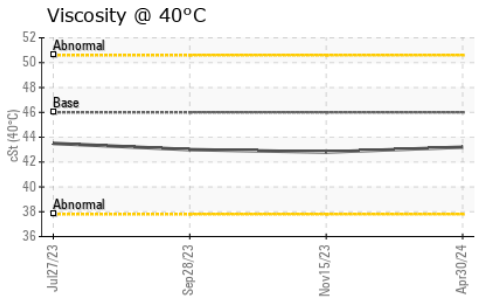
## FLUID CONDITION

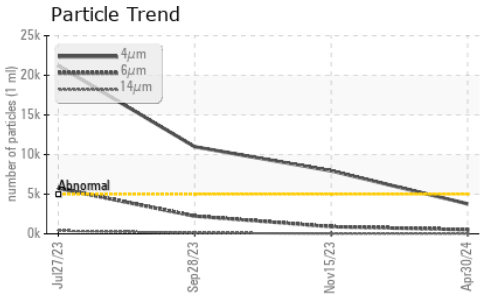
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

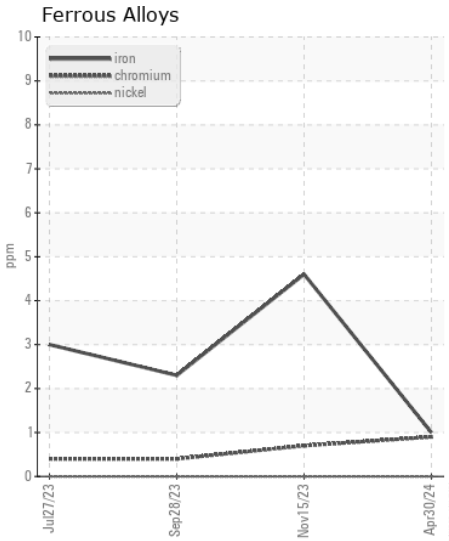
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | VCP420703 | VCP429116 | VCP425590 |
| Sample Date | | Client Info | | 30 Apr 2024 | 15 Nov 2023 | 28 Sep 2023 |
| Machine Age | hrs | Client Info | | 2608 | 1509 | 999 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | ATTENTION | ABNORMAL |
| Iron | ppm | ASTM D5185m | >50 | 1 | 5 | 2 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 0 | 2 | 1 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <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 | >20 | 1 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 3781 | 7952 | 10985 |
| Particles >6µm | | ASTM D7647 | >1300 | 514 | 901 | 2234 |
| Particles >14µm | | ASTM D7647 | >160 | 31 | 35 | 103 |
| Particles >21µm | | ASTM D7647 | >40 | 9 | 9 | 14 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 19/16/12 | 20/17/12 | 21/18/14 |
| 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 | | 1 | <1 | 0 |
| Boron | ppm | ASTM D5185m | 14 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.0 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | 0.0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 2.6 | 5 | 1 | 1 |
| Calcium | ppm | ASTM D5185m | 49 | 62 | 56 | 61 |
| Phosphorus | ppm | ASTM D5185m | 354 | 345 | 310 | 332 |
| Zinc | ppm | ASTM D5185m | 419 | 433 | 399 | 425 |
| Sulfur | ppm | ASTM D5185m | 3719 | 2057 | 1970 | 2000 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.28 | 0.32 | 0.43 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.2 | 42.8 | 43.0 |

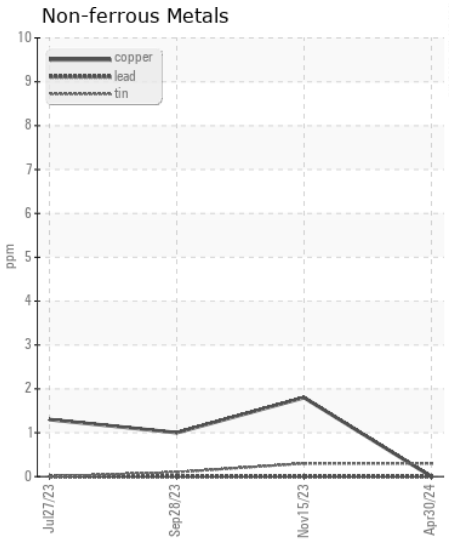


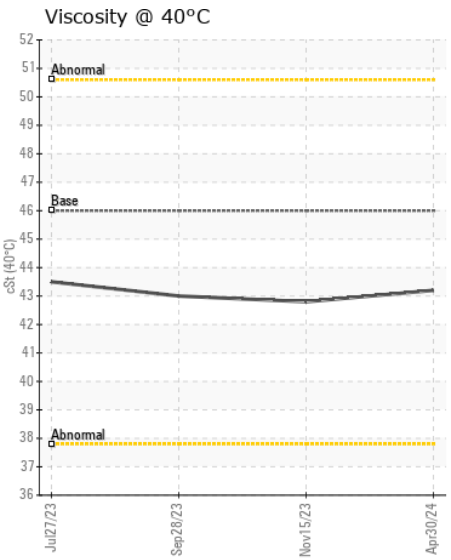



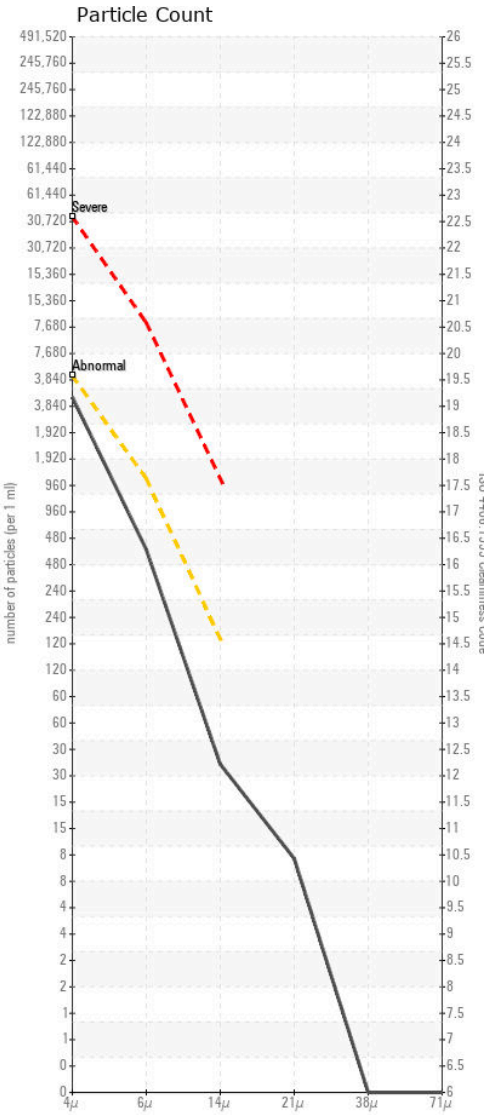



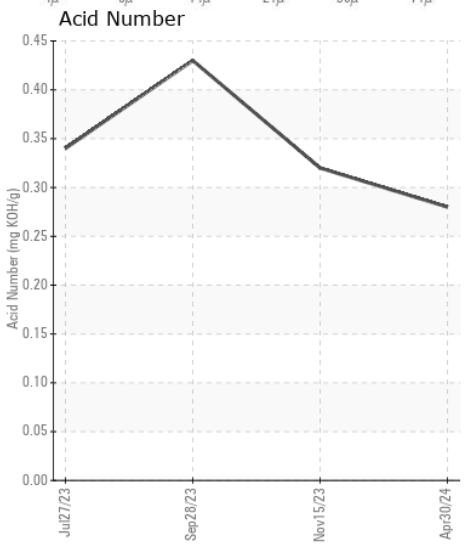




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : VCP420703
**Lab Number** : 06178651
**Unique Number** : 11029977
**Test Package** : MOB 2

**Received** : 14 May 2024
**Tested** : 15 May 2024
**Diagnosed** : 15 May 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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