



VOLVO

OIL ANALYSIS REPORT

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



Area
[SPM716538 MCIRON]
 Machine Id
VOLVO A45GFS 353671
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | VCP452548 | VCP437032 | --- |
| Sample Date | | Client Info | | 17 May 2024 | 14 Feb 2024 | --- |
| Machine Age | hrs | Client Info | | 1501 | 1003 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | Not Changd | Not Changd | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|-----|
| Iron | ppm | ASTM D5185m | >50 | 0 | <1 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 4 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >150 | 3 | 4 | --- |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

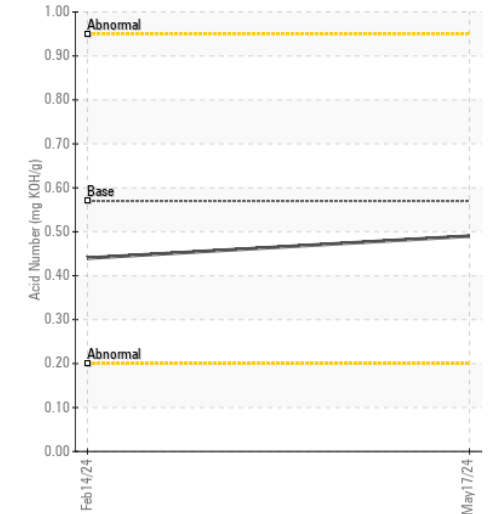
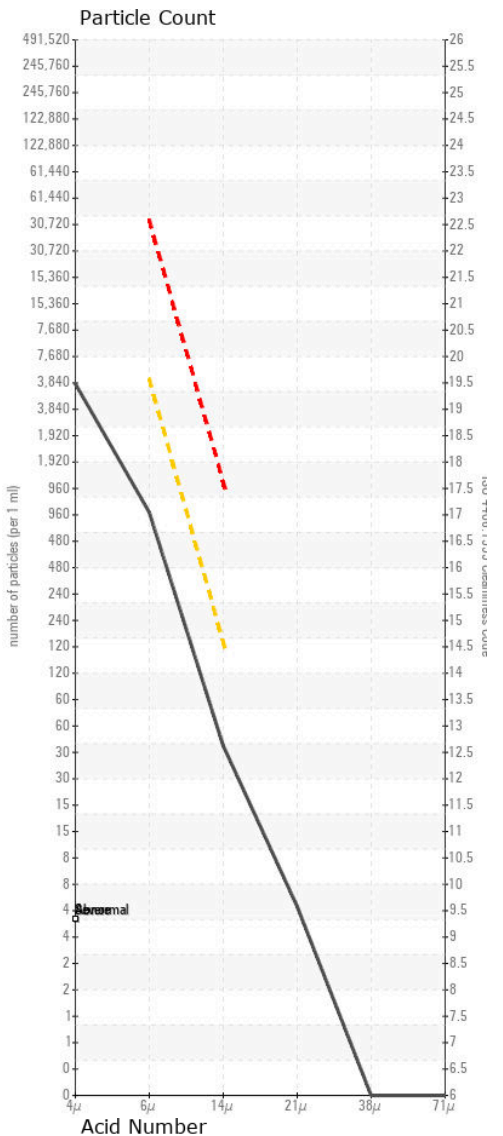
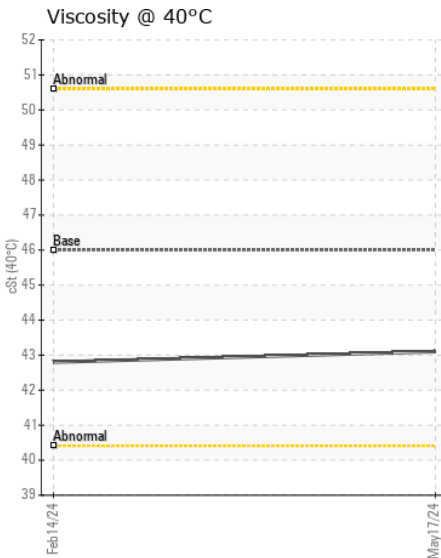
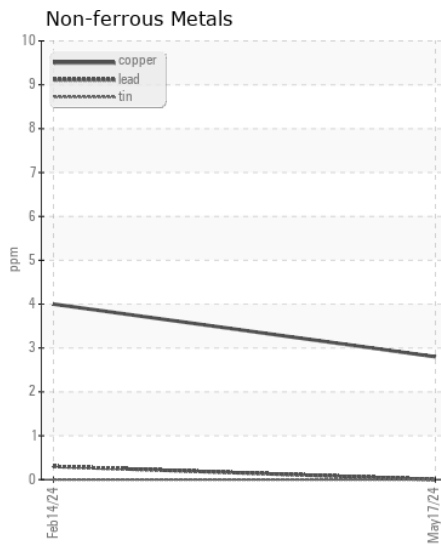
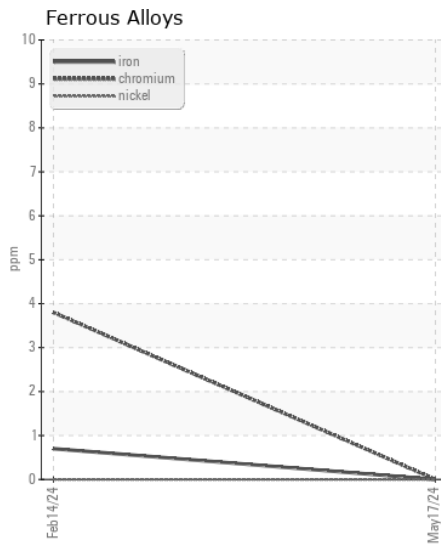
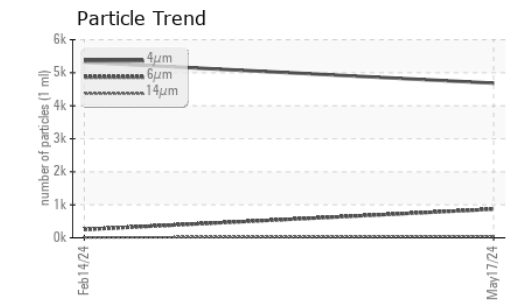
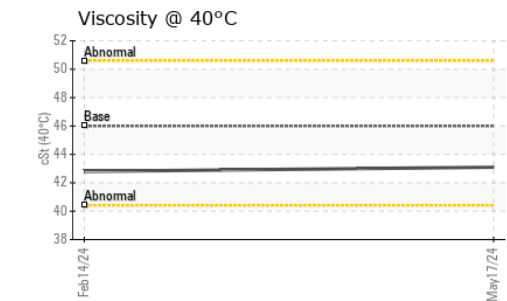
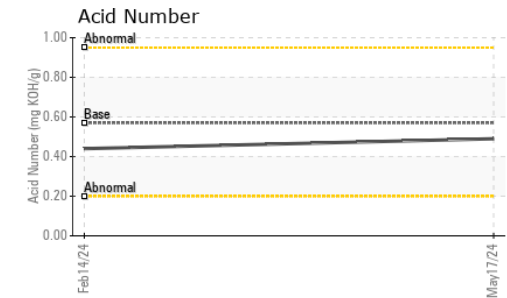
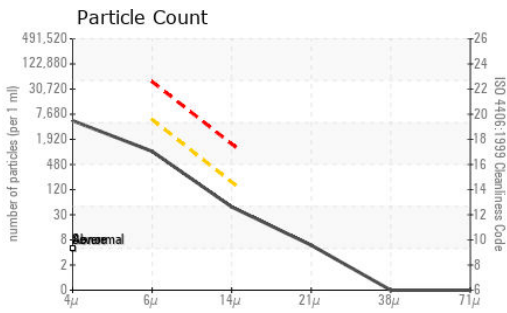
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|----------|-----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 2 | 5 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | | 4684 | 5316 | --- |
| Particles >6µm | | ASTM D7647 | >5000 | 869 | 251 | --- |
| Particles >14µm | | ASTM D7647 | >160 | 41 | 11 | --- |
| Particles >21µm | | ASTM D7647 | >40 | 5 | 2 | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >-/19/14 | 19/17/13 | 20/15/11 | --- |
| 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 | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 1 | 0 | --- |
| Boron | ppm | ASTM D5185m | 5 | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 25 | 0 | 1 | --- |
| Calcium | ppm | ASTM D5185m | 200 | 55 | 47 | --- |
| Phosphorus | ppm | ASTM D5185m | 300 | 327 | 290 | --- |
| Zinc | ppm | ASTM D5185m | 370 | 415 | 419 | --- |
| Sulfur | ppm | ASTM D5185m | 2500 | 1475 | 1227 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.49 | 0.44 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.1 | 42.8 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : VCP452548
 Lab Number : 06197571
 Unique Number : 11059694
 Test Package : MOB 2

Received : 03 Jun 2024
 Tested : 04 Jun 2024
 Diagnosed : 04 Jun 2024 - Wes Davis

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: MARK DEROSA
 mark.derosa@altg.com
 T: (248)356-5200
 F:

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)