



VOLVO

OIL ANALYSIS REPORT

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



Area
[12855]
Machine Id
VOLVO L60H 622323
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

WEAR

All component wear rates are normal.

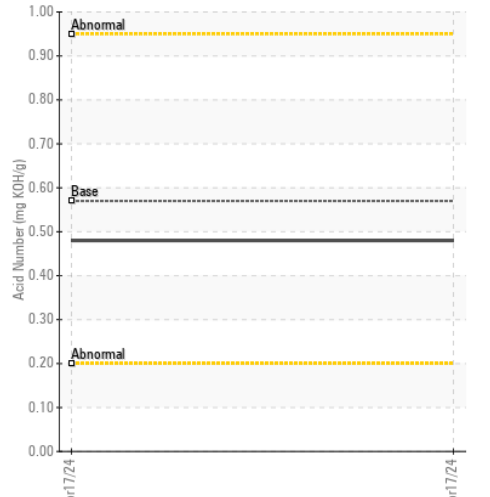
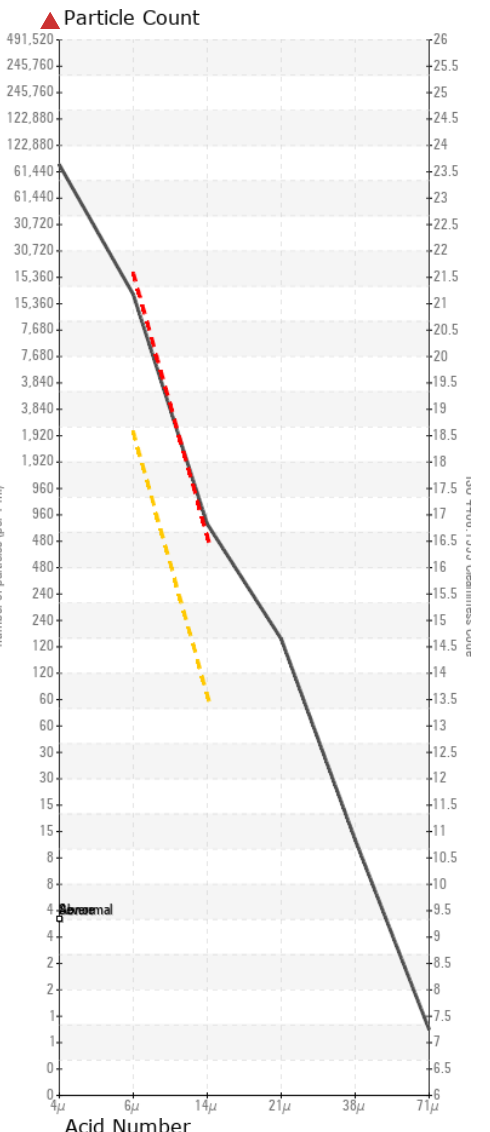
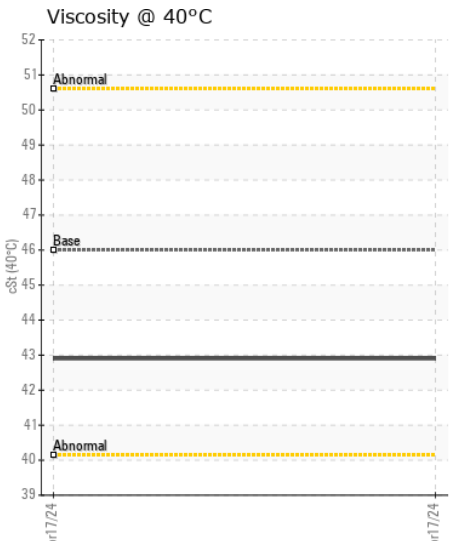
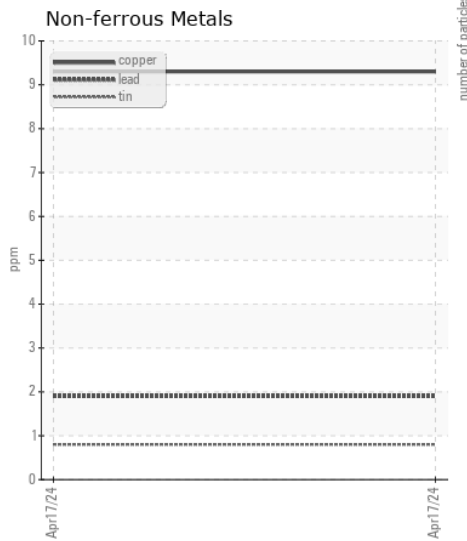
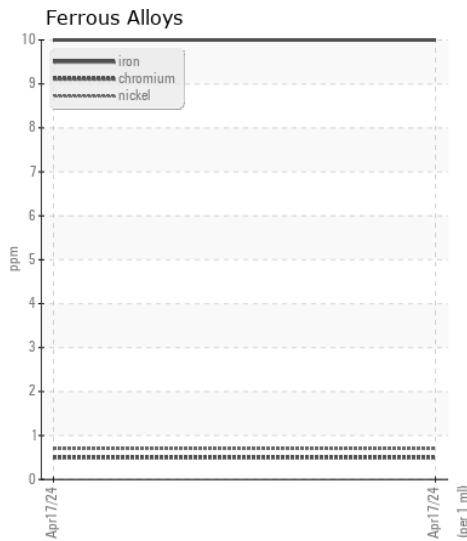
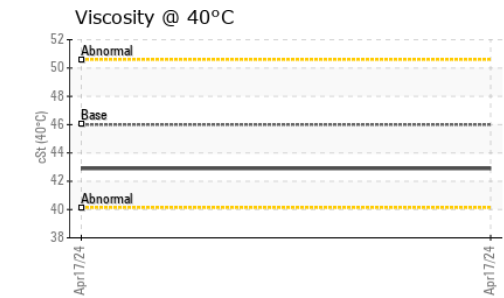
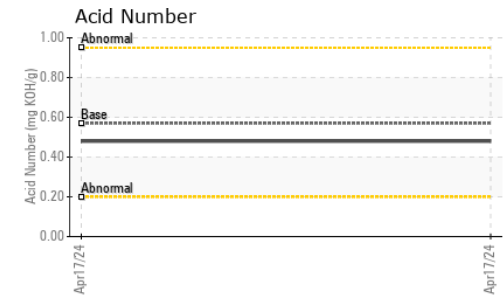
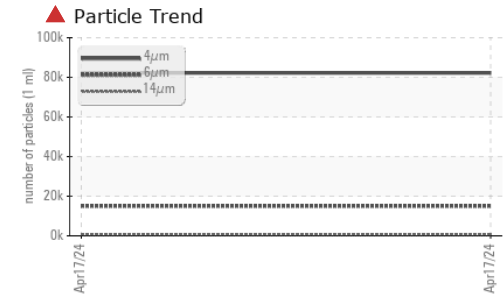
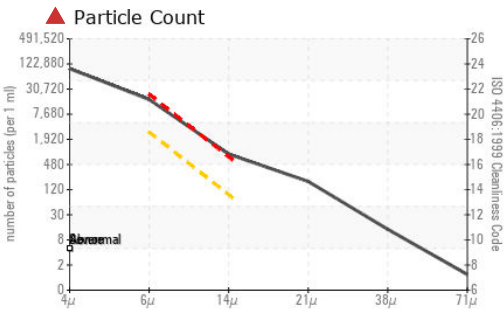
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|--------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | VC510543 | --- | --- |
| Sample Date | | Client Info | | 17 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 5475 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Chngd | --- | --- |
| Filter Changed | | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |
| Iron | ppm | ASTM D5185m | >50 | 10 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m | >150 | 9 | --- | --- |
| Tin | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >20 | 7 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 8 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | | 82159 | --- | --- |
| Particles >6µm | | ASTM D7647 | >2500 | ▲ 15049 | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 747 | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 166 | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | ▲ 12 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 1 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >-/18/13 | ▲ 24/21/17 | --- | --- |
| 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 | | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | 5 | 3 | --- | --- |
| Barium | ppm | ASTM D5185m | 5 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 5 | 3 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 25 | 15 | --- | --- |
| Calcium | ppm | ASTM D5185m | 200 | 395 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 300 | 431 | --- | --- |
| Zinc | ppm | ASTM D5185m | 370 | 522 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 2500 | 2432 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.48 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 42.9 | --- | --- |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VC510543
Lab Number : 06156873
Unique Number : 10992296
Test Package : MOB 2

TRANSOURCE TRUCK & EQUIPMENT
 901 EAST 60TH STREET NORTH
 SIOUX FALLS, SD
 US 57104
 Contact: BRAD MAUPIN
 brad.maupin@transourceusa.com

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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