



OIL ANALYSIS REPORT

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



Machine Id
VOLVO A40G 341245
Component
Hydraulic System
Fluid
MOBIL HYDRAULIC OIL AW 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | ML0002746 | VCP425028 | VCP252607 |
| Sample Date | | Client Info | | 26 Jun 2024 | 21 Jul 2023 | 27 Jul 2019 |
| Machine Age | hrs | Client Info | | 7738 | 7168 | 4096 |
| Oil Age | hrs | Client Info | | 570 | 2000 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | 12 | 13 | 12 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | 3 |
| Copper | ppm | ASTM D5185m | >150 | 6 | 6 | 9 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

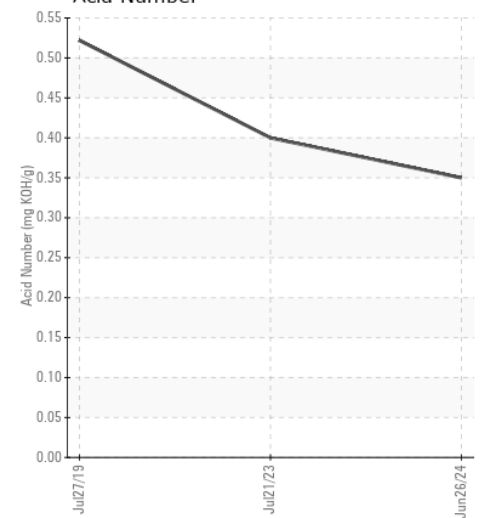
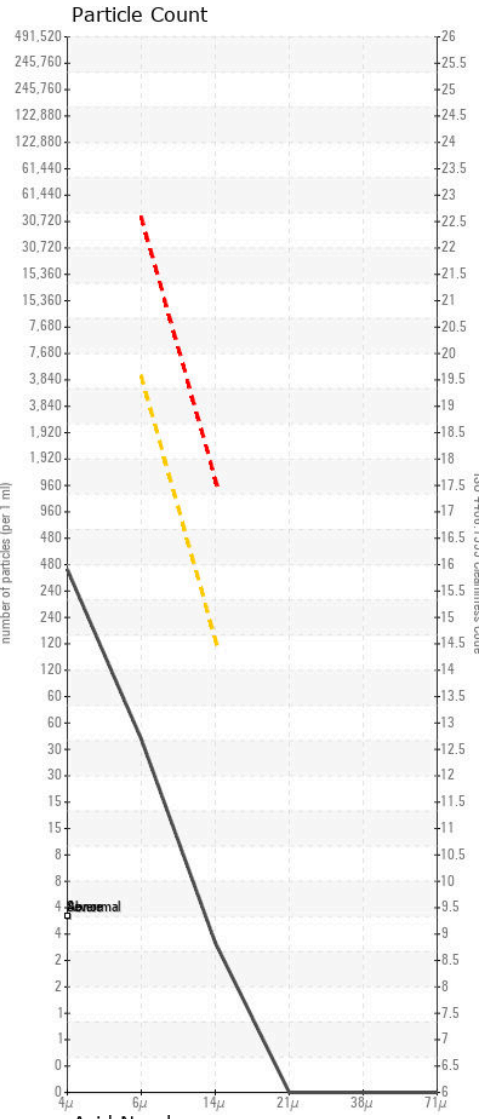
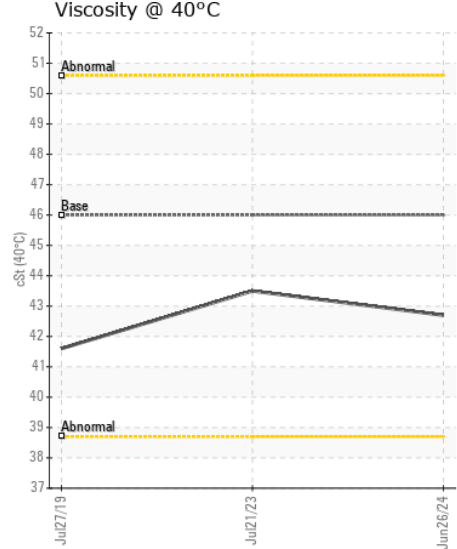
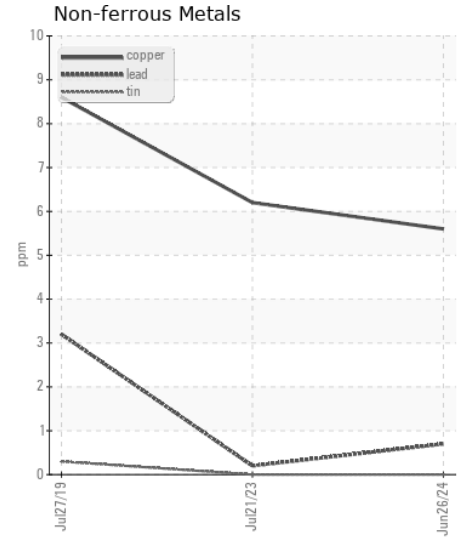
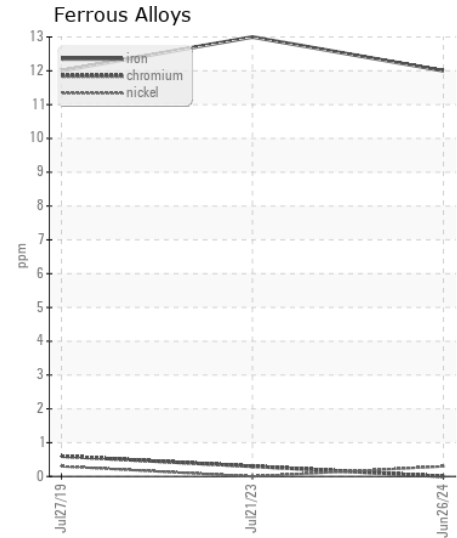
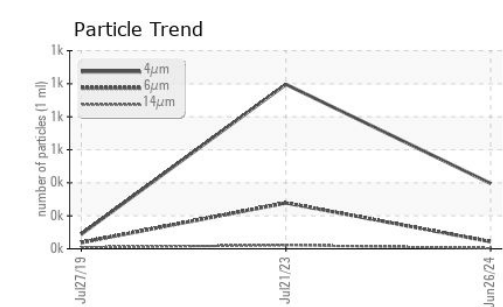
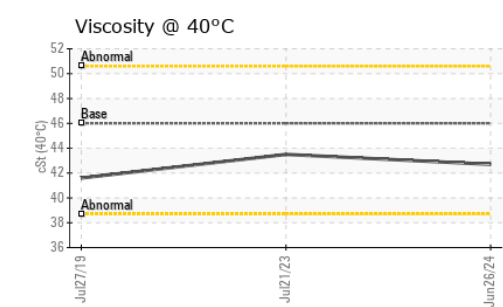
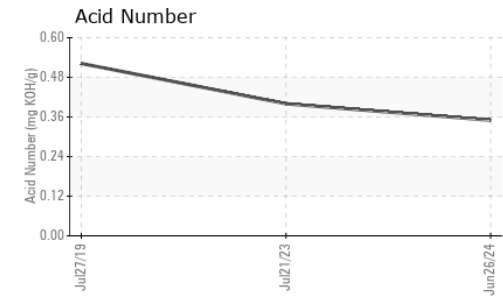
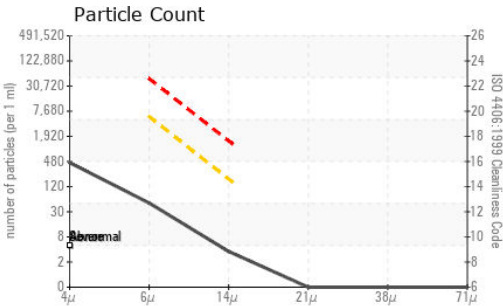
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|----------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 4 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | | 396 | 996 | 89 |
| Particles >6µm | | ASTM D7647 | >5000 | 43 | 278 | 38 |
| Particles >14µm | | ASTM D7647 | >160 | 3 | 22 | 9 |
| Particles >21µm | | ASTM D7647 | >40 | 0 | 6 | 3 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 2 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >-/19/14 | 16/13/9 | 17/15/12 | 14/12/10 |
| 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 | >0.1 | NEG | 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 | | 4 | 3 | 3 |
| Boron | ppm | ASTM D5185m | | 7 | 6 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 36 | 33 | 2 |
| Calcium | ppm | ASTM D5185m | | 278 | 269 | 154 |
| Phosphorus | ppm | ASTM D5185m | | 391 | 388 | 356 |
| Zinc | ppm | ASTM D5185m | | 487 | 477 | 462 |
| Sulfur | ppm | ASTM D5185m | | 2733 | 2659 | 4662 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.35 | 0.40 | 0.522 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 42.7 | 43.5 | 41.6 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002746
Lab Number : 06226753
Unique Number : 11110246
Test Package : CONST
Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 05 Jul 2024 - Doug Bogart

MCCLEUNG-LOGAN EQUIPMENT CO - RICHMOND
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 GLEN ALLEN, VA
 US 23060
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Certificate L2367
 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)