



VOLVO

OIL ANALYSIS REPORT

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



Area
[GROUT]
Machine Id
VOLVO EC750EL 310059
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP433258 | VCP252805 | VCP247435 |
| Sample Date | | Client Info | | 29 Jan 2024 | 12 Mar 2020 | 12 Jul 2019 |
| Machine Age | hrs | Client Info | | 0 | 7649 | 7487 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >25 | 2 | 2 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >150 | <1 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

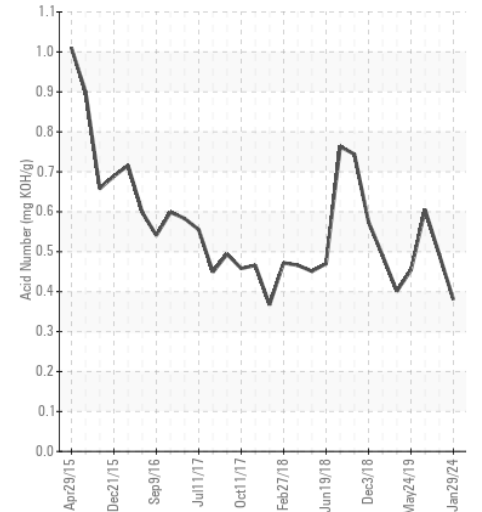
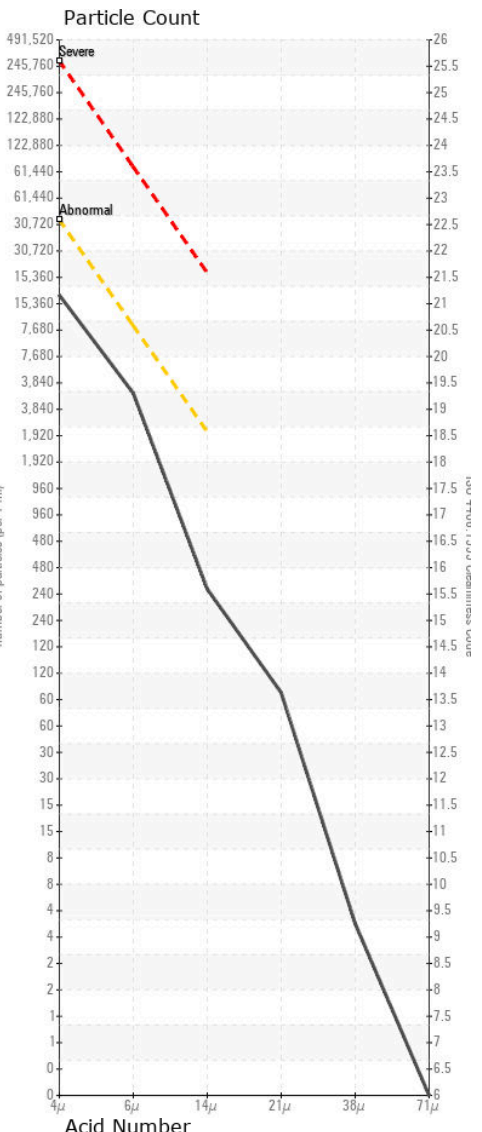
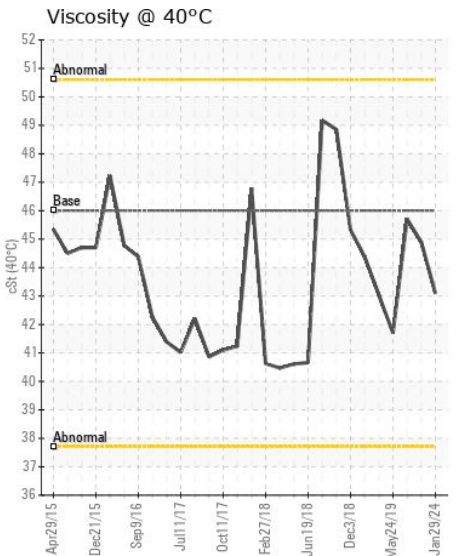
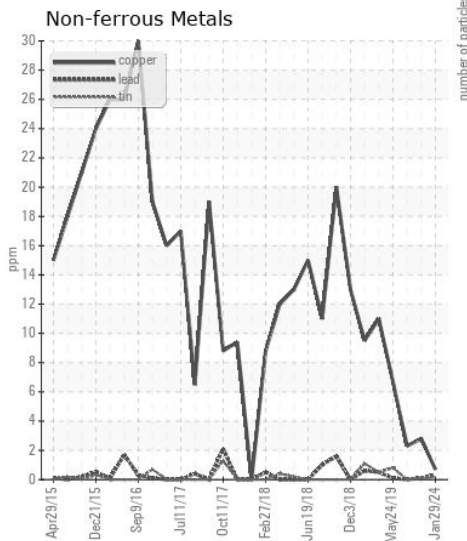
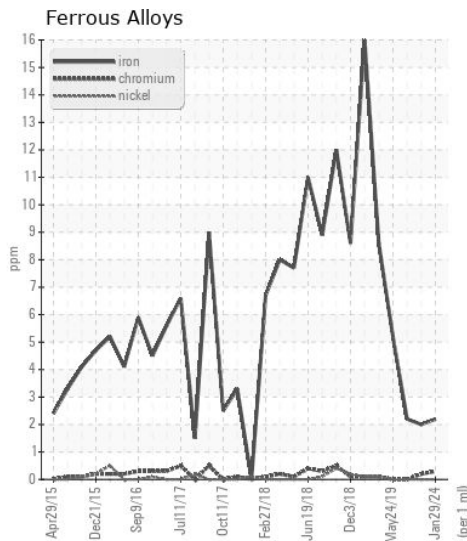
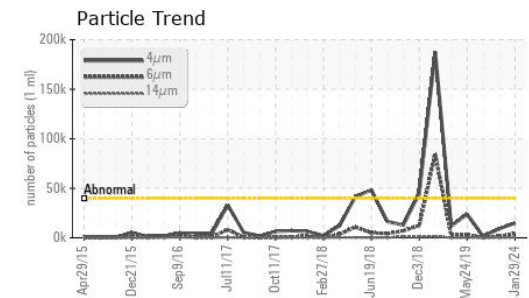
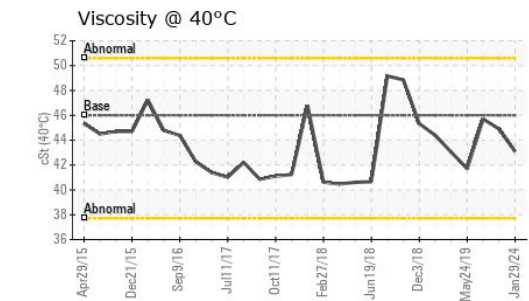
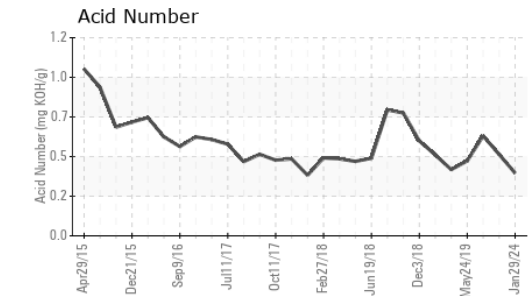
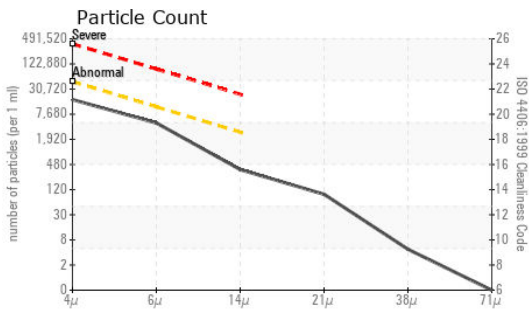
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >50 | 0 | 1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >40000 | 14925 | 9073 | 1449 |
| Particles >6µm | | ASTM D7647 | >10000 | 4139 | 1349 | 261 |
| Particles >14µm | | ASTM D7647 | >2500 | 319 | 54 | 13 |
| Particles >21µm | | ASTM D7647 | >640 | 82 | 14 | 3 |
| Particles >38µm | | ASTM D7647 | >160 | 4 | 3 | 0 |
| Particles >71µm | | ASTM D7647 | >40 | 0 | 2 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >22/20/18 | 21/19/15 | 20/18/13 | 18/15/11 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | VLITE | 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 | | 0 | 0 | <1 |
| Boron | ppm | ASTM D5185m | 14 | 0 | 3 | 3 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.0 | <1 | 2 | 3 |
| Manganese | ppm | ASTM D5185m | 0.0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 2.6 | 3 | 11 | 14 |
| Calcium | ppm | ASTM D5185m | 49 | 68 | 122 | 123 |
| Phosphorus | ppm | ASTM D5185m | 354 | 306 | 359 | 366 |
| Zinc | ppm | ASTM D5185m | 419 | 468 | 512 | 478 |
| Sulfur | ppm | ASTM D5185m | 3719 | 949 | 2146 | 3351 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.38 | 0.493 | 0.605 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.1 | 44.9 | 45.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP433258 **Received** : 30 Jan 2024
Lab Number : 06074633 **Diagnosed** : 31 Jan 2024
Unique Number : 10856724 **Diagnostician** : Wes Davis
Test Package : MOB 2

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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)