



VOLVO

OIL ANALYSIS REPORT

| | |
|-----------------|-----------|
| WEAR | NORMAL |
| CONTAMINATION | ABNORMAL |
| FLUID CONDITION | ATTENTION |



Area
[12058]
Machine Id
VOLVO A30D 12117
Component
Drop Box
Fluid
MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | VCP443158 | VCP363760 | VCP374834 |
| Sample Date | | Client Info | | 08 Feb 2024 | 11 Aug 2022 | 09 Aug 2022 |
| Machine Age | hrs | Client Info | | 12796 | 10465 | 10465 |
| Oil Age | hrs | Client Info | | 0 | 2000 | 2000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Not Changed | Not Changed |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 18 | 31 | 20 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 1 | <1 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 6 | 2 |
| Lead | ppm | ASTM D5185m | >30 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >30 | 2 | 4 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <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 |

CONTAMINATION

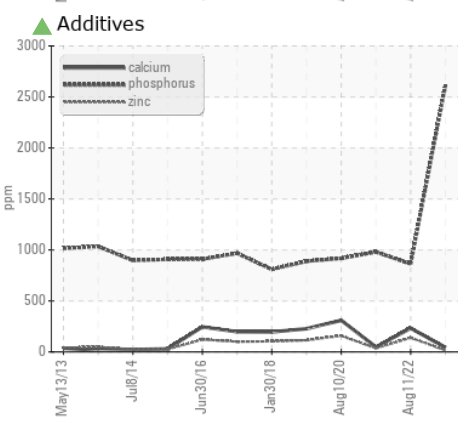
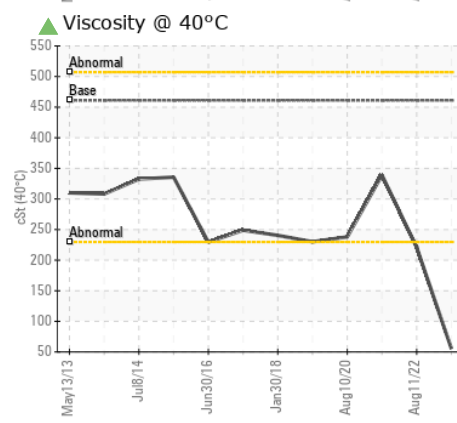
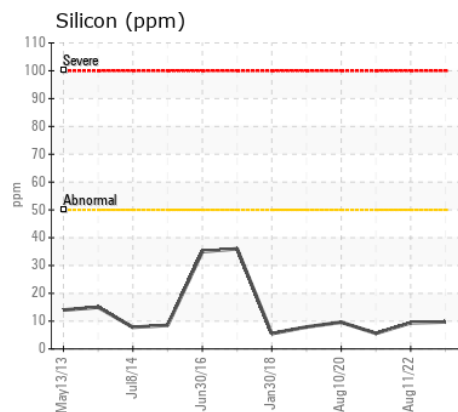
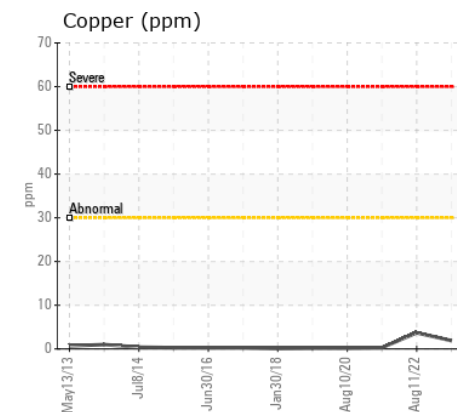
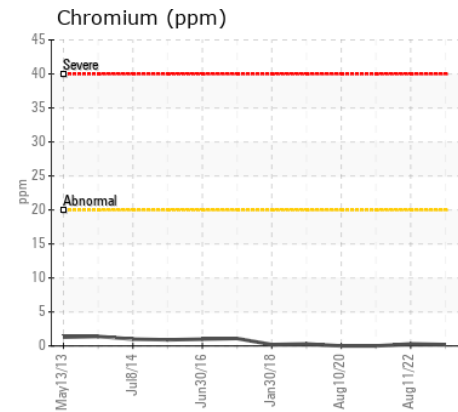
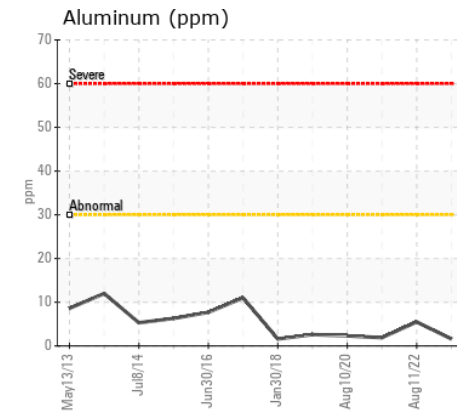
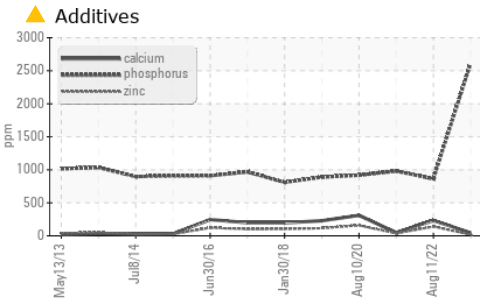
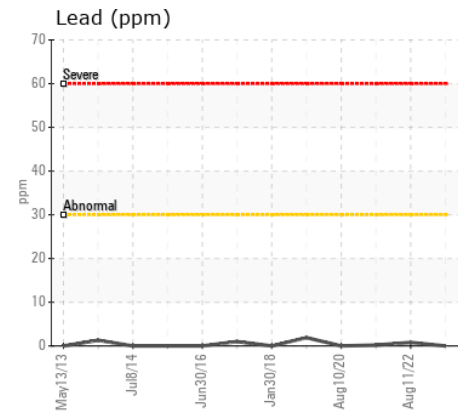
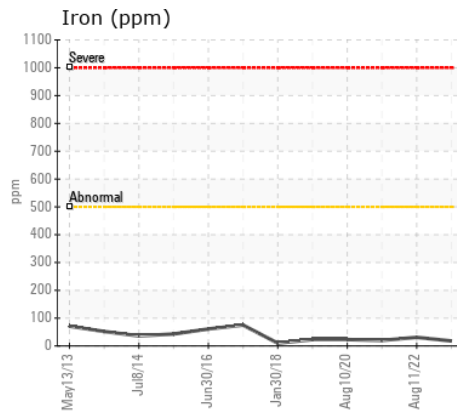
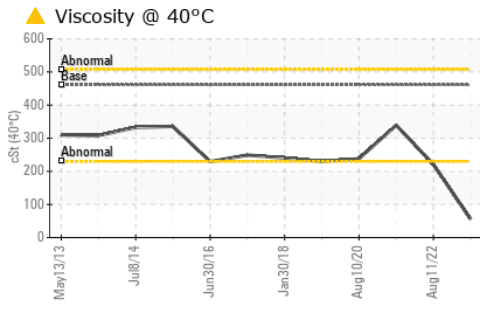
Moderate concentration of visible dirt/debris present in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|---------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 10 | 9 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | 1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | ▲ MODER | 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 |

FLUID CONDITION

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

| | | | | | | |
|-------------|-----|-------------|-----|--------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 0 | 4 | 2 |
| Boron | ppm | ASTM D5185m | | 287 | 146 | 200 |
| Barium | ppm | ASTM D5185m | | 12 | <1 | 2 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 5 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 5 | 25 | 6 |
| Calcium | ppm | ASTM D5185m | | ▲ 44 | 233 | 48 |
| Phosphorus | ppm | ASTM D5185m | | ▲ 2610 | 863 | 981 |
| Zinc | ppm | ASTM D5185m | | ▲ 16 | 140 | 36 |
| Sulfur | ppm | ASTM D5185m | | 35076 | 22850 | 23627 |
| Visc @ 40°C | cSt | ASTM D445 | 461 | ▲ 55.5 | 221 | 339 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443158
Lab Number : 06089153
Unique Number : 10876598
Test Package : MOB 1
Received : 14 Feb 2024
Tested : 19 Feb 2024
Diagnosed : 19 Feb 2024 - Jonathan Hester

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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)