



VOLVO

OIL ANALYSIS REPORT

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



Area
[443773]
Machine Id
VOLVO A40G 342315
Component
Drop Box
Fluid
GEAR OIL SAE 85W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP441071 | VCP332228 | VCP301940 |
| Sample Date | | Client Info | | 01 Feb 2024 | 16 Dec 2021 | 26 Mar 2021 |
| Machine Age | hrs | Client Info | | 7233 | 3976 | 3215 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-------|
| Iron | ppm | ASTM D5185m | >500 | 223 | 63 | 81 |
| Chromium | ppm | ASTM D5185m | >20 | 3 | 1 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 15 | 8 | 6 |
| Lead | ppm | ASTM D5185m | >30 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >30 | 0 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | VLITE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

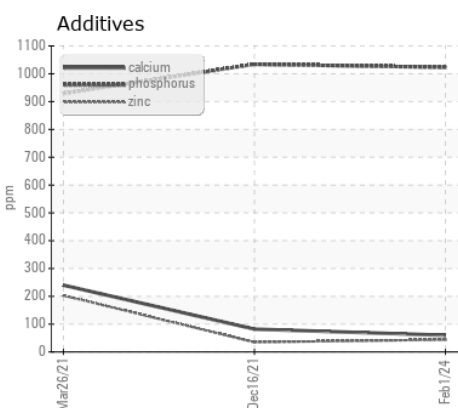
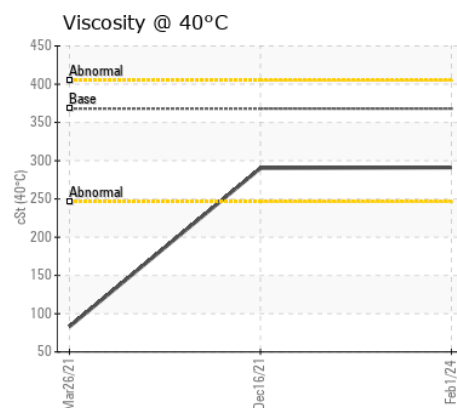
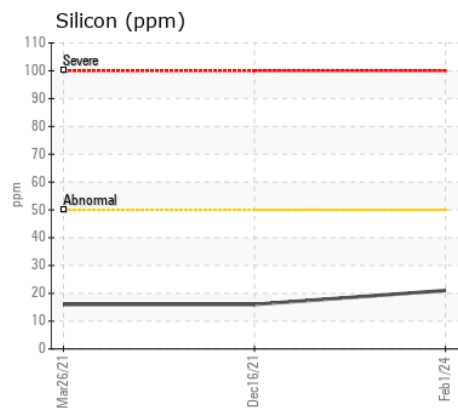
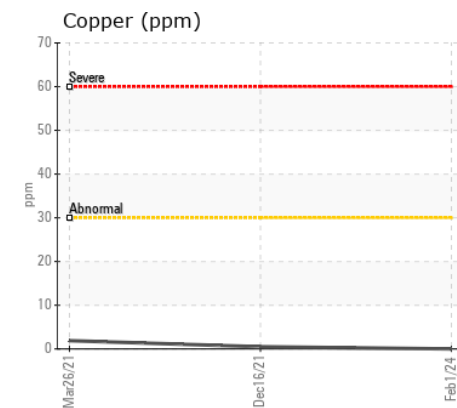
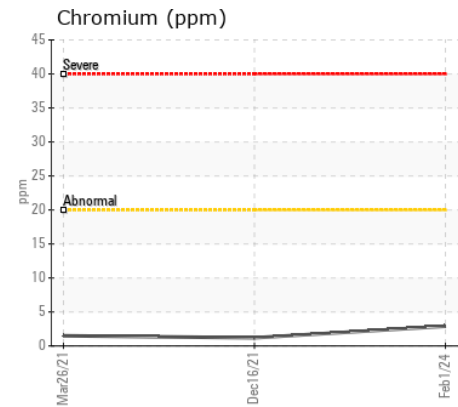
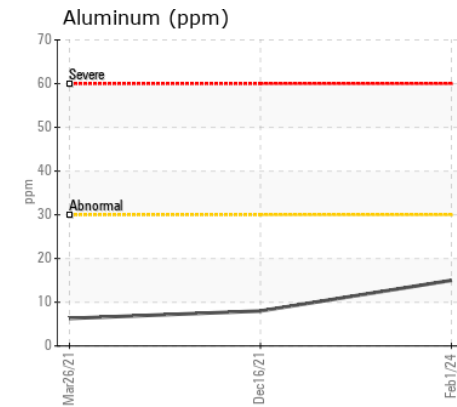
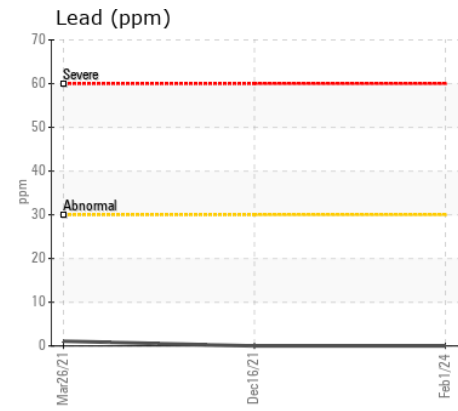
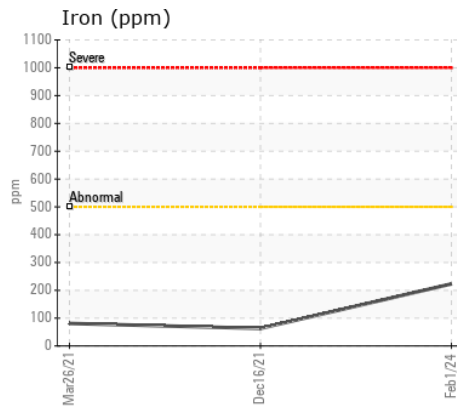
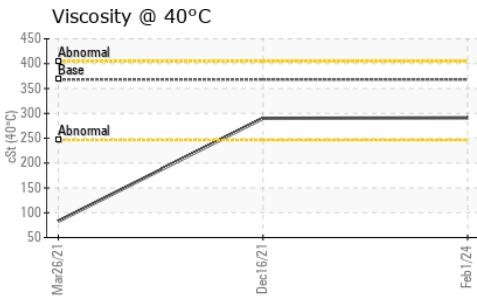
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 21 | 16 | 16 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 11 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 9 | 10 | 25 |
| Boron | ppm | ASTM D5185m | 400 | 114 | 164 | 94 |
| Barium | ppm | ASTM D5185m | 200 | 1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 14 | 11 | 20 |
| Manganese | ppm | ASTM D5185m | | 4 | 1 | 2 |
| Magnesium | ppm | ASTM D5185m | 12 | 9 | 10 | 16 |
| Calcium | ppm | ASTM D5185m | 150 | 60 | 82 | 240 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1023 | 1034 | 929 |
| Zinc | ppm | ASTM D5185m | 125 | 44 | 35 | 203 |
| Sulfur | ppm | ASTM D5185m | 22500 | 26975 | 24954 | 12689 |
| Visc @ 40°C | cSt | ASTM D445 | 368 | 291 | 290 | 82.9 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP441071 **Received** : 08 Feb 2024
Lab Number : 06083937 **Tested** : 09 Feb 2024
Unique Number : 10871382 **Diagnosed** : 09 Feb 2024 - Wes Davis
Test Package : MOB 1

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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)