



VOLVO

OIL ANALYSIS REPORT

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



Machine Id
VOLVO A40G 352778
Component
Wet Disc Brake
Fluid
VOLVO WET BRAKE TRANSAXLE OIL (--- 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 | | VCP438451 | VCP415812 | --- |
| Sample Date | | Client Info | | 20 Feb 2024 | 29 Jun 2023 | --- |
| Machine Age | hrs | Client Info | | 4770 | 3734 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | ABNORMAL | ABNORMAL | --- |

WEAR

The iron level is abnormal. The copper level is abnormal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|--------------|-----|
| Iron | ppm | ASTM D5185m | >20 | ▲ 51 | 36 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 1 | 1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 6 | 6 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 2 | --- |
| Lead | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >75 | ▲ 206 | ▲ 191 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

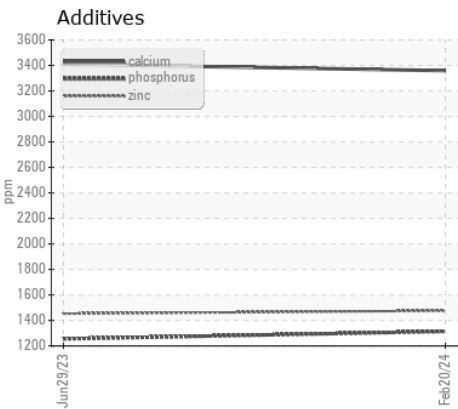
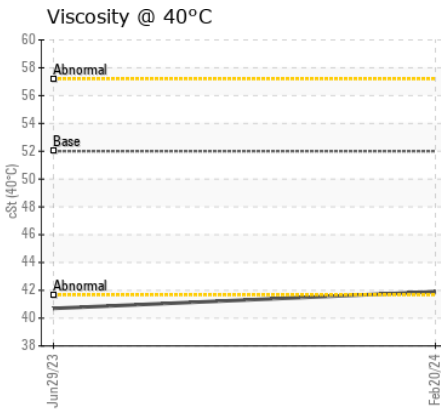
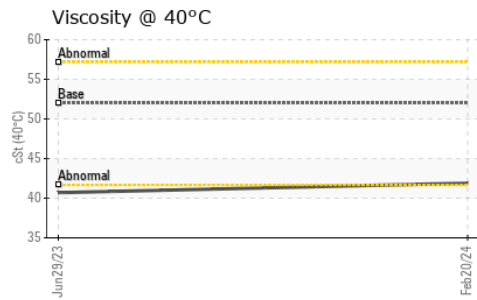
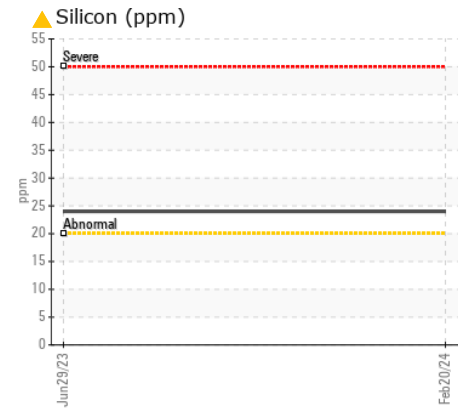
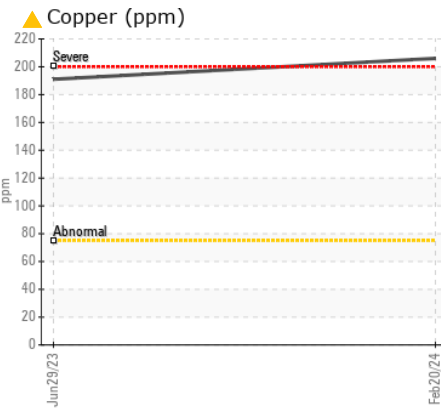
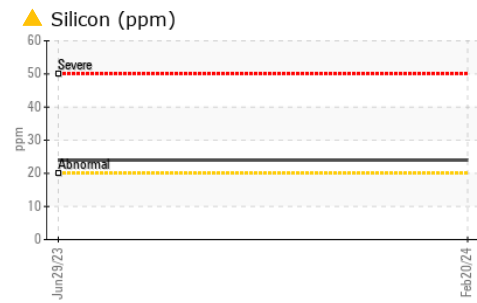
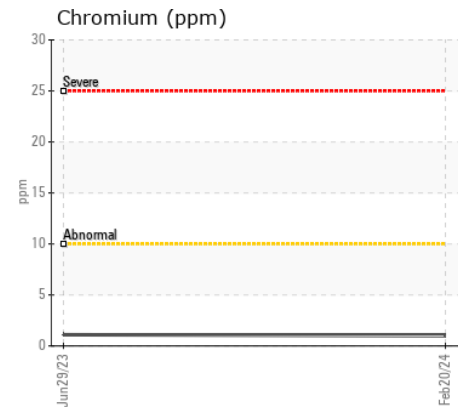
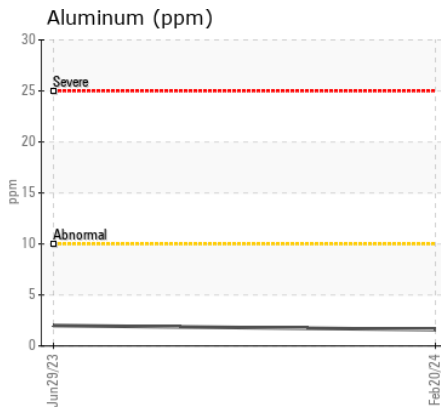
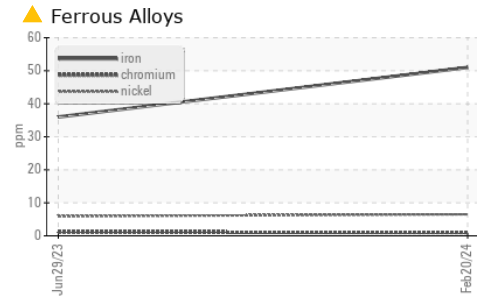
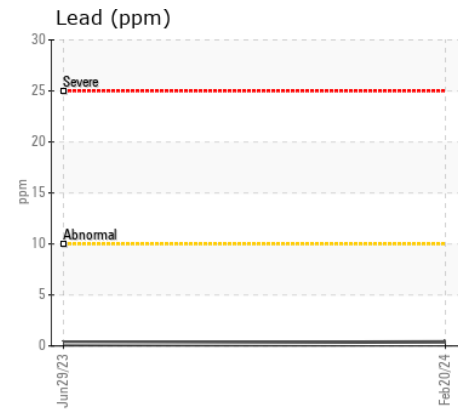
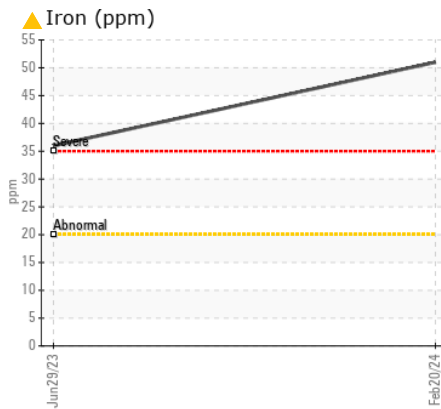
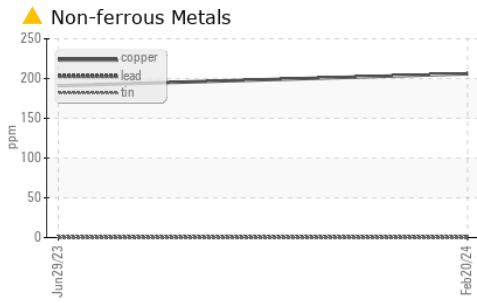
Elemental level of silicon (Si) above normal indicating ingress of seal material.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------------|-----|
| Silicon | ppm | ASTM D5185m | >20 | ▲ 24 | ▲ 24 | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|------|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 9 | 6 | --- |
| Boron | ppm | ASTM D5185m | 100 | 90 | 103 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 2 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 2 | 2 | --- |
| Magnesium | ppm | ASTM D5185m | 0 | 13 | 13 | --- |
| Calcium | ppm | ASTM D5185m | 3800 | 3359 | 3410 | --- |
| Phosphorus | ppm | ASTM D5185m | 1200 | 1314 | 1255 | --- |
| Zinc | ppm | ASTM D5185m | 1500 | 1476 | 1453 | --- |
| Sulfur | ppm | ASTM D5185m | 6500 | 4530 | 4855 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 52.0 | 41.9 | 40.7 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438451
Lab Number : 06102020
Unique Number : 10900250
Test Package : MOB 1

Received : 27 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 29 Feb 2024 - Jonathan Hester

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.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)

T:
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