



ASCENDUM

OIL ANALYSIS REPORT

WEAR

ATTENTION

CONTAMINATION

NORMAL

FLUID CONDITION

NORMAL



Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO A40G 2332 (S/N A40GV752022)

Component

Drop Box

Fluid

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | ASC0011104 | ASC0008595 | ASC0002664 |
| Sample Date | | Client Info | | 24 Jun 2024 | 15 Feb 2024 | 01 Dec 2023 |
| Machine Age | hrs | Client Info | | 2033 | 1462 | 1107 |
| Oil Age | hrs | Client Info | | 2033 | 1462 | 1107 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL |

WEAR

An increase in the copper and iron levels is noted.

| | | | | | | |
|--------------|--------|-------------|------|-------|------|------|
| Iron | ppm | ASTM D5185m | >500 | ● 292 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 0 | 2 | 0 |
| Lead | ppm | ASTM D5185m | >30 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >30 | ● 18 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 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

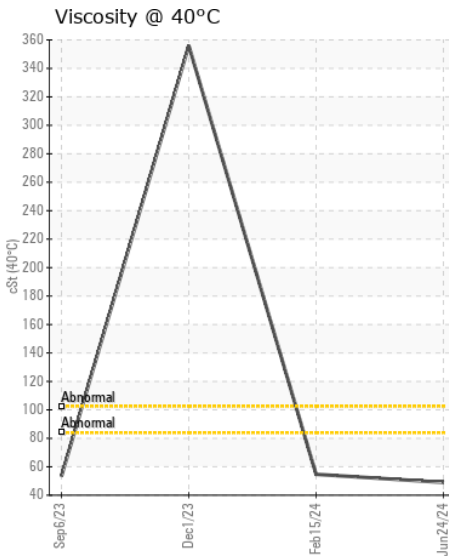
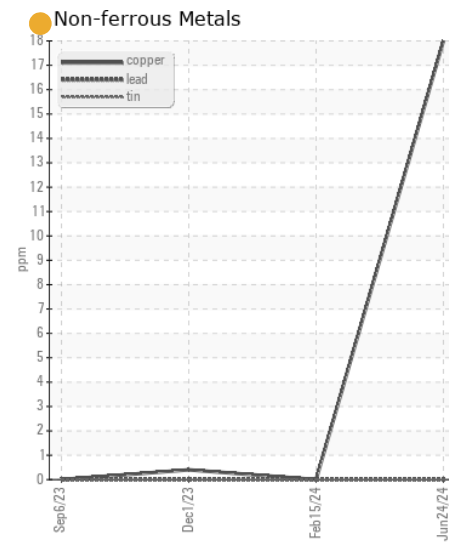
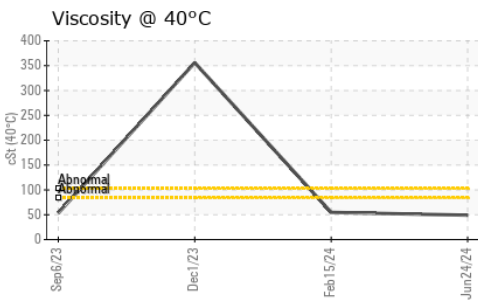
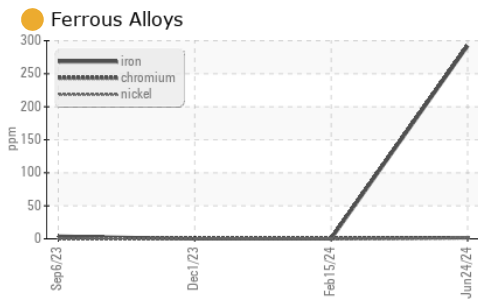
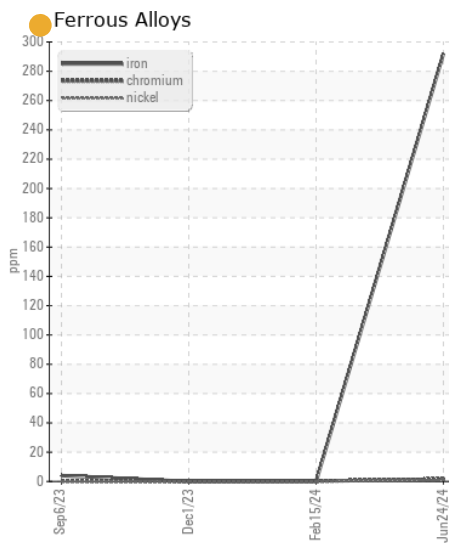
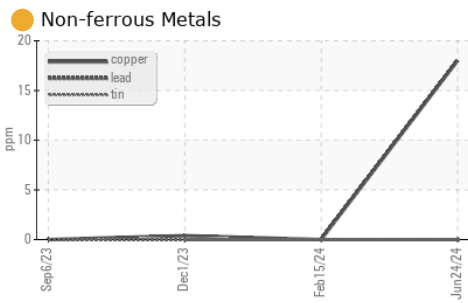
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 26 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 15 | 1 | 0 |
| 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 | | 10 | 0 | 2 |
| Boron | ppm | ASTM D5185m | | 129 | 326 | 207 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 7 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 6 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 3 | 0 |
| Calcium | ppm | ASTM D5185m | | 100 | 27 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 2181 | 2170 | 1012 |
| Zinc | ppm | ASTM D5185m | | 124 | 9 | 2 |
| Sulfur | ppm | ASTM D5185m | | 29562 | 27431 | 28646 |
| Visc @ 40°C | cSt | ASTM D445 | | 49.0 | 54.7 | 356 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0011104

Lab Number : 06221703

Unique Number : 11099900

Test Package : CONST

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 28 Jun 2024 - Don Baldrige

G S MATERIALS INC

PO BOX 1335

BURLINGTON, NC

US 27216

Contact: KAREN NEWPORT

Gsmaterials@windstream.net

T: (919)499-9322

F: (919)499-2097

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)