



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **ABNORMAL**

FLUID CONDITION **NORMAL**



Area
Ascendum Machinery/500 Hour CSA
 Machine Id
VOLVO A40G 2305 (S/N 353314)
 Component
Drop Box
 Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number | | Client Info | | ASC0009801 | ASC0007455 | --- |
| Sample Date | | Client Info | | 12 Jun 2024 | 08 Feb 2024 | --- |
| Machine Age | hrs | Client Info | | 1936 | 1472 | --- |
| Oil Age | hrs | Client Info | | 1936 | 1472 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | ABNORMAL | ABNORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|------|-----|
| Iron | ppm | ASTM D5185m | >500 | 143 | 60 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 2 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >30 | 3 | <1 | --- |
| Lead | ppm | ASTM D5185m | >30 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >30 | 37 | 6 | --- |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

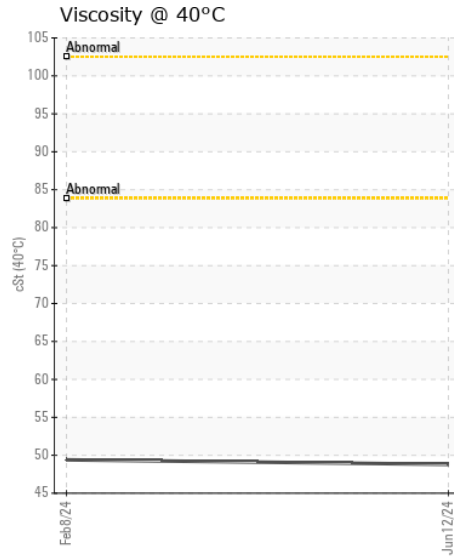
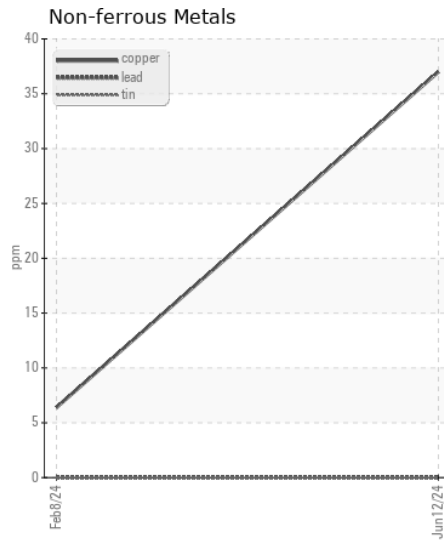
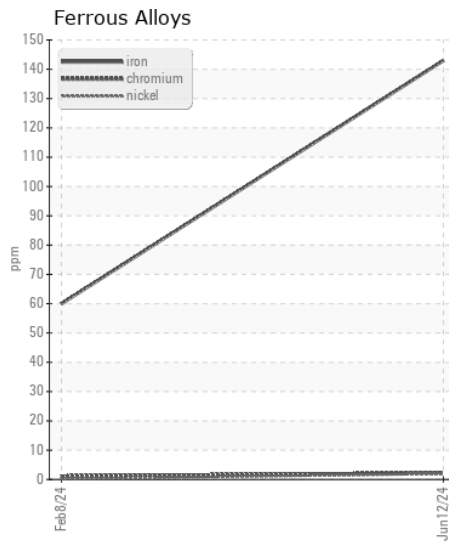
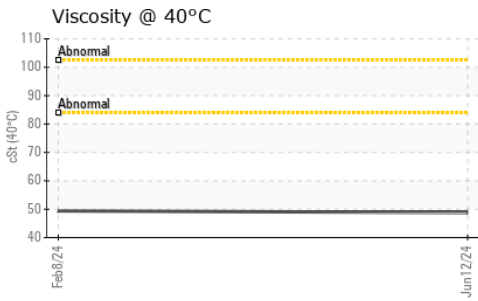
There is a moderate amount of visible silt present in the sample.

| | | | | | | |
|------------------|--------|-------------|-------|---------|---------|-----|
| Silicon | ppm | ASTM D5185m | >50 | 6 | 27 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | ▲ MODER | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | ▲ MODER | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|--|-------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 5 | 6 | --- |
| Boron | ppm | ASTM D5185m | | 280 | 153 | --- |
| Barium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 2 | 5 | --- |
| Manganese | ppm | ASTM D5185m | | 6 | 2 | --- |
| Magnesium | ppm | ASTM D5185m | | 4 | 4 | --- |
| Calcium | ppm | ASTM D5185m | | 1117 | 50 | --- |
| Phosphorus | ppm | ASTM D5185m | | 2014 | 2277 | --- |
| Zinc | ppm | ASTM D5185m | | 490 | 60 | --- |
| Sulfur | ppm | ASTM D5185m | | 22699 | 24669 | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 48.8 | 49.4 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009801
Lab Number : 06210558
Unique Number : 11083422
Test Package : CONST

Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Angela Borella

TRIANGLE GRADING AND PAVING INC
 1521 Huffman Mill Rd
 BURLINGTON, NC
 US 27216

Contact: KAREN HILLIARD
 khilliard@trianglegradingpaving.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)

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