



ASCENDUM

OIL ANALYSIS REPORT

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

Area
Ascendum Machinery/500 Hour CSA

Machine Id
VOLVO EC220E 310445

Component
Right Travel

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

WEAR

Gear wear is indicated.

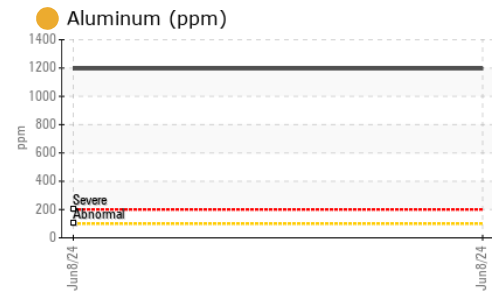
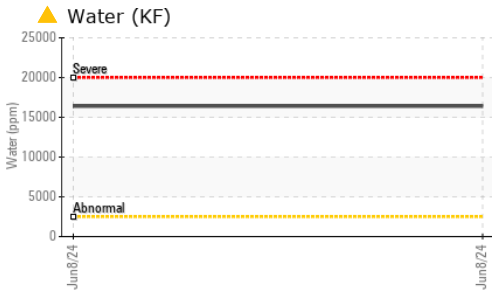
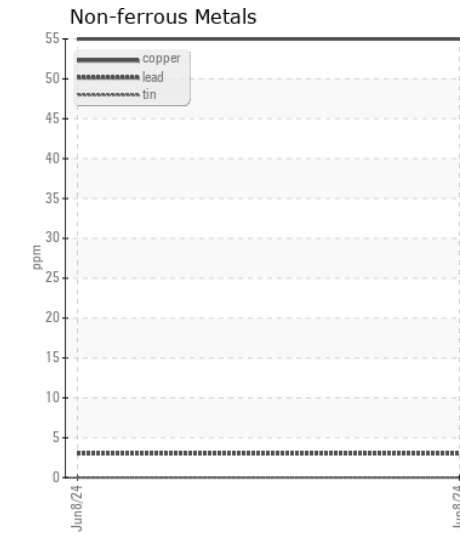
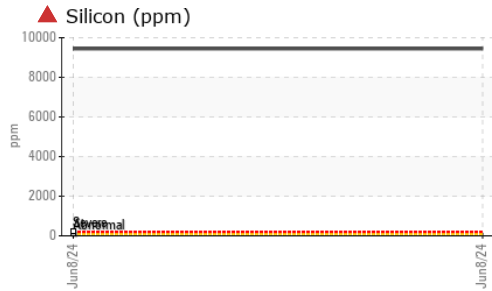
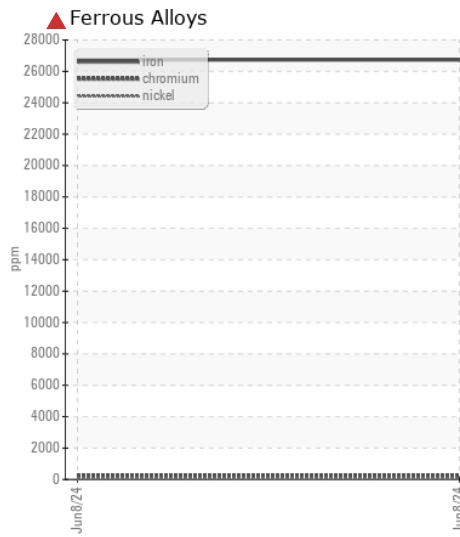
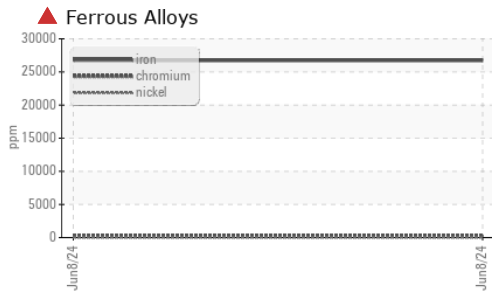
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | ASC0009532 | --- | --- |
| Sample Date | | Client Info | | 08 Jun 2024 | --- | --- |
| Machine Age | days | Client Info | | 5552 | --- | --- |
| Oil Age | days | Client Info | | 5552 | --- | --- |
| Filter Age | days | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | None | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |
| Iron | ppm | ASTM D5185m | >1200 | ▲ 26731 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | ▲ 209 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | ▲ 25 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 127 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >100 | ● 1195 | --- | --- |
| Lead | ppm | ASTM D5185m | >50 | 3 | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | 55 | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 4 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >100 | ▲ 9443 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 199 | --- | --- |
| Water | % | ASTM D6304 | >0.25 | ▲ 1.64 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >2500 | ▲ 16400 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.25 | 0.2% | --- | --- |
| Sodium | ppm | ASTM D5185m | | 83 | --- | --- |
| Boron | ppm | ASTM D5185m | | 31 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 24 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 164 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 73 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 187 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 363 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 32 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 63012 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009532
Lab Number : 06210544
Unique Number : 11083408
Test Package : CONST (Additional Tests: KF)

Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

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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