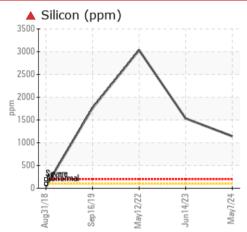
ASCENDUM PROBLEM SUMMARY

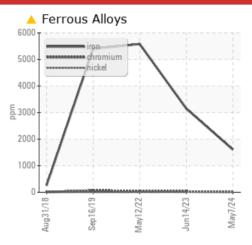
Area Ascendum Machinery VOLVO EC220E 310380

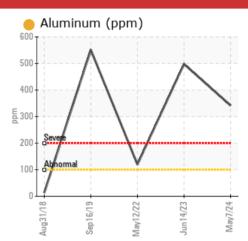
Right Travel

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

COMPONENT CONDITION SUMMARY







DIRT

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|-----|-------------|-------|-------------|--------------|---------------|--|--|
| Sample Status | | | | SEVERE | SEVERE | SEVERE | | |
| Iron | ppm | ASTM D5185m | >1200 | <u> </u> | ▲ 3152 | ▲ 5582 | | |
| Silicon | ppm | ASTM D5185m | >100 | 1143 | 1 533 | a 3035 | | |

Sample Rating Trend

Customer Id: BRSRICNC Sample No.: ASC0009950 Lab Number: 06177602 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED ACTIONS | | | | | | | |
|---------------------|--------|------|---------|------------------|--|--|--|
| Action Resample | Status | Date | Done By | Des We | | | |
| Check Dirt Access | | | ? | We | | | |

Description

We recommend an early resample to monitor this condition.

We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



14 Jun 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. 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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



12 May 2022 Diag: Don Baldridge



We advise that you check all areas where dirt can enter the system. 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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.





16 Sep 2019 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. 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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.





ASCENDUM OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

X

Area Ascendum Machinery VOLVO EC220E 310380

Right Travel

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

📥 Wear

The iron level has decreased, but is still abnormal. Gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

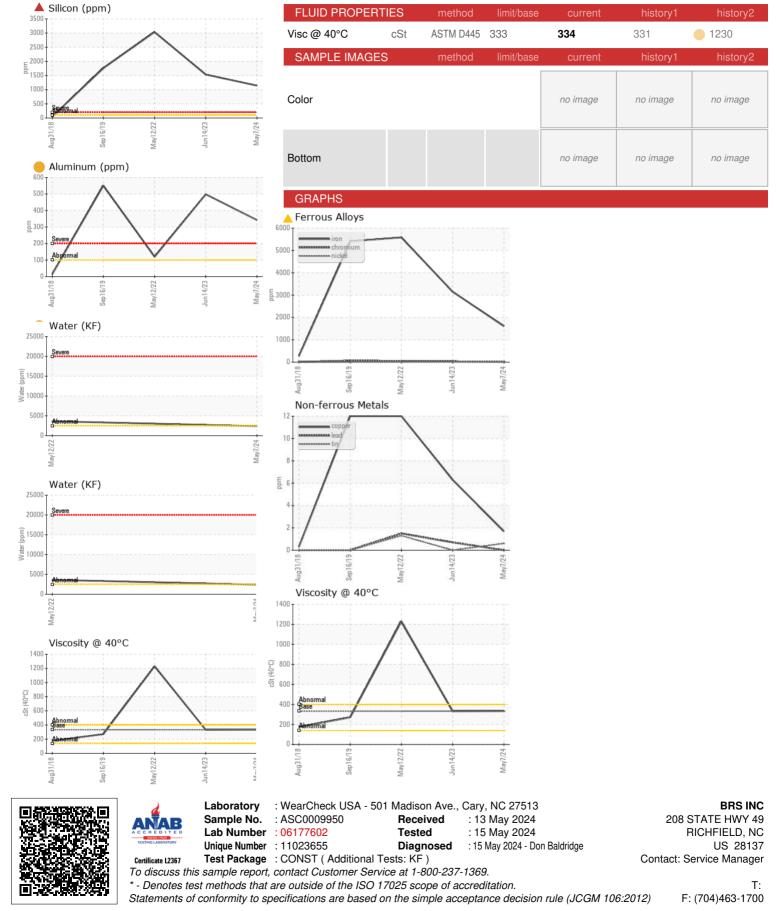
Fluid Condition

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

| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|---|--------------|--------------------|----------------|------------------------|---------------|---------------|
| Sample Number | | Client Info | | ASC0009950 | ASC0000222 | VCP377021 |
| Sample Date | | Client Info | | 07 May 2024 | 14 Jun 2023 | 12 May 2022 |
| Machine Age | hrs | Client Info | | 4432 | 4052 | 3458 |
| Oil Age | hrs | Client Info | | 380 | 594 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | SEVERE | SEVERE | SEVERE |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >1200 | <u> 1608</u> | a 3152 | ▲ 5582 |
| Chromium | ppm | ASTM D5185m | >20 | 17 | <u> </u> | 4 9 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | ▲ 7 | 4 |
| Titanium | ppm | ASTM D5185m | | 22 | 25 | 61 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >100 | 3 42 | 498 | 120 |
| Lead | ppm | ASTM D5185m | >50 | 0 | <1 | 2 |
| Copper | ppm | ASTM D5185m | | 2 | 6 | 12 |
| Tin | ppm | ASTM D5185m | >5 | _ <1 | 0 | 1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | 20 | <1 | 1 | 2 |
| | | | | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 111 | 173 | 157 | 113 |
| Barium | ppm | ASTM D5185m | 0.0 | 3 | 2 | 6 |
| Molybdenum | ppm | ASTM D5185m | 0.9 | 0 | 4 | 6 |
| Manganese | ppm | ASTM D5185m | 0.0 | 12 | 19 | 36 |
| Magnesium | ppm | ASTM D5185m | 39 | 29 | 51 | 142 |
| Calcium | ppm | ASTM D5185m | 93 | 62 | 153 | 258 |
| Phosphorus | ppm | ASTM D5185m | 920 | 1107 | 1034 | 881 |
| Zinc | ppm | ASTM D5185m | 104 | 5 | 30 | 25 |
| Sulfur | ppm | ASTM D5185m | 20179 | 34334 | 32315 | 31259 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >100 | 1143 | 1 533 | a 3035 |
| Sodium | ppm | ASTM D5185m | | 34 | 47 | 135 |
| Potassium | ppm | ASTM D5185m | >20 | 52 | 85 | 173 |
| Water | % | ASTM D6304 | >0.25 | 0.241 | | ▲ 0.363 |
| ppm Water | ppm | ASTM D6304 | >2500 | 2410 | | ▲ 3630 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | MODER | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | | | | | | NODM |
| | scalar | *Visual | NORML | NORML | NORML | NORML |
| Appearance | scalar | *Visual *Visual | NORML NORML | _ | NORML | NORML |
| Sand/Dirt Appearance Odor Emulsified Water | | | | NORML NORML 0.2% | | |



OIL ANALYSIS REPORT



Report Id: BRSRICNC [WUSCAR] 06177602 (Generated: 05/24/2024 13:25:32) Rev: 1

Submitted By: KARRINGTON RENDLEMAN