

Ascendum Machinery Machine Id VOLVO EC380E EX-02 (S/N 310020)

Right Travel

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

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

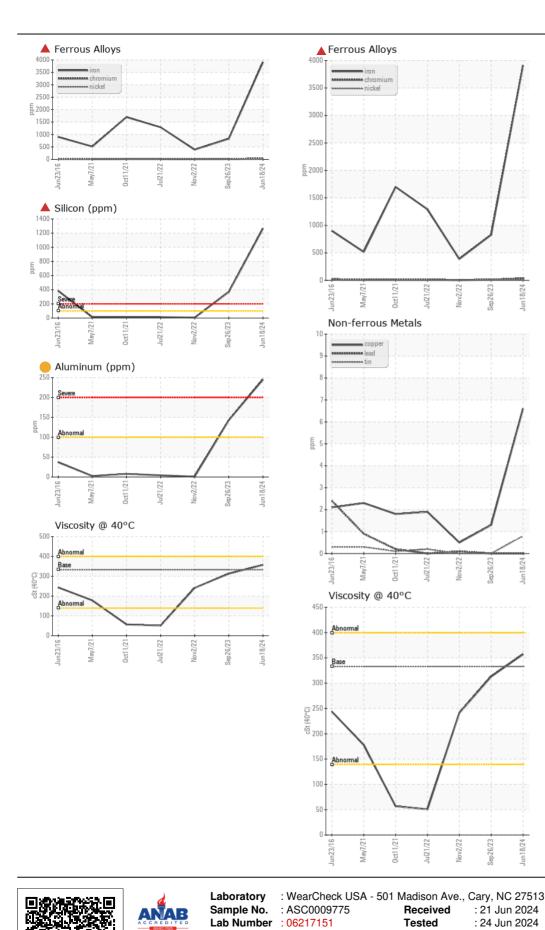
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

| 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 | | ASC0009775 | ASC0001414 | VCP0004476 |
| Sample Date | | Client Info | | 18 Jun 2024 | 26 Sep 2023 | 02 Nov 2022 |
| Machine Age | hrs | Client Info | | 11997 | 11014 | 10493 |
| Oil Age | hrs | Client Info | | 983 | 521 | 555 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | N/A | N/A | None |
| Sample Status | | | | SEVERE | SEVERE | NORMAL |
| Iron | ppm | ASTM D5185m | >1200 | 4 3912 | 828 | 388 |
| Chromium | ppm | ASTM D5185m | >20 | A 36 | 11 | 5 |
| Nickel | ppm | ASTM D5185m | >5 | 3 | 2 | 0 |
| Titanium | ppm | ASTM D5185m | | 23 | 8 | <1 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >100 | e 245 | 1 43 | <1 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | 7 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| wille wetai | ooului | | | | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | *Visual ASTM D5185m | NONE >100 | - | NONE | NONE 6 |
| Yellow Metal | scalar | | | NONE | | |
| Yellow Metal Silicon | scalar ppm | ASTM D5185m | >100 | NONE | A 369 | 6 |
| Yellow Metal Silicon Potassium | scalar ppm | ASTM D5185m ASTM D5185m | >100 >20 | NONE 1264 33 | ▲ 369 8 | 6 <1 |
| Yellow Metal Silicon Potassium Water | scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method | >100 >20 >0.25 | NONE 1264 33 NEG | ▲ 369 8 NEG | 6 <1 NEG |
| Yellow Metal Silicon Potassium Water Silt | scalar ppm ppm scalar | ASTM D5185m ASTM D5185m WC Method *Visual | >100 >20 >0.25 NONE | NONE 1264 33 NEG NONE | 369 8 NEG NONE | 6 <1 NEG NONE |
| Yellow Metal Silicon Potassium Water Silt Debris | scalar ppm ppm scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual | >100 >20 >0.25 NONE NONE | NONE 1264 33 NEG NONE NONE | 369 8 NEG NONE NONE | 6 <1 NEG NONE VLITE |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt | scalar ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual | >100 >20 >0.25 NONE NONE NONE | NONE 1264 33 NEG NONE NONE NONE | 369 8 NEG NONE NONE NONE | 6 <1 NEG NONE VLITE NONE |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance | scalar ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >100 >20 >0.25 NONE NONE NONE NORML | NONE 1264 33 NEG NONE NONE NONE NORML | 369 8 NEG NONE NONE NONE NONE NORML | 6 <1 NEG NONE VLITE NONE NORML |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor | scalar ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >100 >20 >0.25 NONE NONE NONE NORML NORML | NONE 1264 33 NEG NONE NONE NONE NORE NORML NORML | 369 8 NEG NONE NONE NONE NORE NORML NORML | 6 <1 NEG NONE VLITE NONE NORML NORML |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | scalar ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >100 >20 >0.25 NONE NONE NONE NORML NORML | NONE 1264 33 NEG NONE NONE NONE NORML NORML NEG | 369 8 NEG NONE NONE NORE NORML NORML NEG | 6 <1 NEG NONE VLITE NONE NORML NORML NEG |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | scalar ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >100 >20 >0.25 NONE NONE NORML NORML >0.25 | NONE 1264 33 NEG NONE NONE NORE NORML NEG 28 | 369 8 NEG NONE NONE NORML NORML NEG 20 | 6 <1 NEG NONE VLITE NONE NORML NORML NEG 2 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | scalar ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >100 >20 >0.25 NONE NONE NORML >0.25 | NONE 1264 33 NEG NONE NONE NONE NORML NORML NEG 28 196 | 369 8 NEG NONE NONE NORML NORML NEG 20 198 | 6 <1 NEG NONE VLITE NORML NORML NEG 2 170 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NONE NORML NORML >0.25 | NONE 1264 33 NEG NONE NONE NORE NORML NEG 28 196 0 | 369 8 NEG NONE NONE NORML NORML NORML NEG 20 198 0 | 6 <1 NEG NONE VLITE NORML NORML NEG 2 170 0 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | scalar ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NORME NORML >0.25 1111 0.0 | NONE 1264 33 NEG NONE NONE NORE NORML NEG 28 196 0 4 | 369 8 NEG NONE NORML NORML NEG 20 198 0 2 | 6 <1 NEG NONE VLITE NONE NORML NORML NEG 2 170 0 2 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | scalar ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NONE NORML >0.25 111 0.0 0.9 0.9 | NONE 1264 33 NEG NONE NONE NORML NORML NEG 28 196 0 4 24 | 369 8 NEG NONE NONE NORML NORML NEG 20 198 0 2 7 | 6 <1 NEG NONE VLITE NORML NORML NEG 2 170 0 2 3 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NONE NORML >0.25 111 0.0 0.9 0.0 39 | NONE 1264 33 NEG NONE NONE NORML NORML NEG 28 196 0 4 24 35 | 369 8 NEG NONE NONE NORML NORML NORML NORML 198 0 2 7 29 | 6 <1 NEG NONE VLITE NORML NORML NEG 2 170 0 2 3 3 7 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NORME NORML >0.25 1111 0.0 0.9 0.9 39 93 | NONE 1264 33 NEG NONE NONE NORE NORML NEG 28 196 0 4 24 35 104 | 369 8 NEG NONE NONE NORML NORML NORML 198 0 2 7 29 64 | 6 |
| Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >100 >20 >0.25 NONE NORME NORML >0.25 111 0.0 0.9 0.0 39 93 920 | NONE 1264 33 NEG NONE NONE NORE NORML NEG 28 196 0 4 24 35 104 1152 | 369 8 NEG NONE NONE NORML NORML NORML 198 0 2 7 29 64 1051 | 6 <1 NEG NONE VLITE NORML NORML NEG 2 170 0 2 3 7 59 1118 |

Submitted By: CLAYTON SMITH



Unique Number : 11090015

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.

Test Package : CONST

Diagnosed

CAROLINA EXCAVATING 1036 BRANCHVIEW DR, SUITE 106 CONCORD, NC : 24 Jun 2024 - Sean Felton US 28025 Contact: KEVIN LADGERWOOD kevin@carlinaexcavation.com Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Certificate L2367

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