

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area [1790] VIN 5390 Component Diesel Engine Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---------------|--------------|---------------------------|----------------|-------------|----------------|-------------|
| Sample Number | | Client Info | | WC0711547 | | |
| Sample Date | | Client Info | | 24 Jun 2024 | | |
| Machine Age | kms | Client Info | | 0 | | |
| Oil Age | kms | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATIO | ۷ | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| - | | and the state | 11.0011/000000 | | In the term of | h is to m O |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >100 | 22 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | | |
| Nickel | ppm | ASTM D5185(m) | >4 | 1 | | |
| Titanium | ppm | ASTM D5185(m) | 0 | <1 | | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >20 | 4 | | |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | | |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | | |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | 28 | | |
| Barium | ppm | ASTM D5185(m) | | 0 | | |
| Molybdenum | ppm | ASTM D5185(m) | | 10 | | |
| Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | | 722 | | |
| Calcium | ppm | ASTM D5185(m) | | 1307 | | |
| Phosphorus | ppm | ASTM D5185(m) | | 679 | | |
| Zinc | ppm | ASTM D5185(m) | | 785 | | |
| Sulfur | ppm | ASTM D5185(m) | | 2596 | | |
| Lithium | ppm | ASTM D5185(m) | | <1 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >25 | 7 | | |
| Sodium | ppm | ASTM D5185(m) | | 5 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | | |
| Fuel | % | ASTM D7593* | >5 | 0.2 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | ASTM D7844* | >3 | 0.1 | | |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.9 | | |
| Sulfation | Abs/.1mm | ASTM D7024 ASTM D7415* | >30 | 23.2 | | |
| Guildion | nuga/.111111 | 101WD1410 | 200 | 20.2 | | |



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| Fuel Dilution | | | FLUID DEGRADA | TION | method | limit/base | |
|--|----------------|---|--|-----------|---------------|---|---|
| Severe | | | Oxidation | Abs/.1mm | ASTM D7414* | >25 | 1 |
| Abnormal | | | VISUAL | | method | limit/base | |
| | | | White Metal | scalar | Visual* | NONE | ١ |
| | | | Yellow Metal | scalar | Visual* | NONE | 1 |
| 1 | | | Precipitate | scalar | Visual* | NONE | |
| 24 | | 24 | Silt | scalar | Visual* | NONE | |
| Jun24/24 | | Jun24/24 | Debris | scalar | Visual* | NONE | |
| JL . | | Ju | Sand/Dirt | scalar | Visual* | NONE | |
| FT-IR (Direct Ti | rend) | | | | | NORML | |
| Oxidation | | | Appearance | scalar | Visual* | | |
| • •••••••••••••••••••••••••••••••••••• | | | Odor | scalar | Visual* | NORML | |
| Abronnal Sulfation | | | Emulsified Water | scalar | Visual* | >0.2 | |
| | | | Free Water | scalar | Visual* | | |
| | | | FLUID PROPERT | IES | method | limit/base | |
| | ***** | | Visc @ 40°C | cSt | ASTM D7279(m) | | |
| 24 | | - 24 | Visc @ 100°C | cSt | ASTM D7279(m) | | |
| Jun24/24 | | Jun24/24 | Viscosity Index (VI) | Scale | ASTM D2270* | | |
| Viscosity @ 40° | | | GRAPHS | | | | |
| Abnormal | | | Iron (ppm) | | | 10 | Le |
| | | | 300 200 Severe | | | | 00 S |
| | | | E L | | | udd | 50 - A |
| | | | abnormal | | | a | 50 - 4 |
| | | | | | | | |
| | | | 0 | | | + | 0 |
| Abnormal | | | - | | | 24/24 | |
| | | | o | | | Jun24/24 | Jun24/24 |
| Abnormal | | 24,24 | Aluminum (ppm) | | | | D Jun24/24 |
| | | Jun24/24 | Aluminum (ppm) | | | | 0 D Jun24/24 |
| Jun24/24 | 2°C | Jun24/24 | Aluminum (ppm) | | | | 0 D Jun24/24 |
| Abnormal | 2°C | - +2/+24 | Aluminum (ppm) | | | ud ud | 40 40 100 24/24 |
| Abnormal HZHZUNG Viscosity @ 40 ⁴ | °C | Jun24,24 | Aluminum (ppm) | | | ud ud | 40 |
| Abnormal | °C | Jun24/24 | Aluminum (ppm) | | | ud | 60 L S S S S S S S S S S S S S S S S S S |
| Abnormal | °C | Jun24/24 | Aluminum (ppm) | | | ud | 60 L S S S S S S S S S S S S S S S S S S |
| Abnormal P2Hr2un Viscosity @ 40° | °C | - Jun24/24 | Aluminum (ppm) | | | ud ud | Jun24/24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Abnormal Viscosity @ 40° | 2°C | - Jun24/24 | Aluminum (ppm) | | | Jun24/24 | C Jun24/24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Abnormal P2Hr2un Viscosity @ 40° | 2°C | Jun24/24 | Aluminum (ppm) | | | Jun24/24 | S Jun24/24 |
| Abnormal Viscosity @ 40° | 2C | Jun24/24 | Aluminum (ppm) | | | Jun2424 | +2/h2unr C |
| Abnormal Viscosity @ 40° | 2°C | Jun24,24 - | Aluminum (ppm) | | | Jun2424 | 00 00 00 00 00 00 00 00 00 00 |
| Viscosity @ 40° | °C | Jun24,24 | Aluminum (ppm) | | | mq mq | +Z/+Zunn C |
| Viscosity @ 40 ⁴ | ² C | Jun24/24 | Aluminum (ppm) | | | mq mq | +2/+2/m C |
| Viscosity @ 40 ⁴ | °C | Jun24/24 - | Aluminum (ppm) | | | Jun2424 | 42/42/un C |
| Viscosity @ 40 ⁴ | °C | Jun24/24 + | Aluminum (ppm) | | | Jun24/24 ppm | +2/+2/mn C + + + + + - + + + + + + + + + + + + + + + + + + |
| Viscosity @ 40° | °C | - 20124(24) | Aluminum (ppm) | | | Jun24/24 ppm | +ZthZumr C + ZthZumr S + zthZumr S + zthZumr |
| Abnormal Viscosity @ 40° | °C | - 21/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 - 10/2 | Aluminum (ppm) | | | Jun24/24 Jun24/24 ppm | 10.1 |
| Abnormal Viscosity @ 40° | PC | Jun24/24 | Aluminum (ppm) | | | Jun24/24 Jun24/24 ppm | S 200 100 100 100 100 100 100 100 100 100 |
| Abnormal Viscosity @ 40° | PC | Jun24/24 | Aluminum (ppm) | | | Soot ** | Bit Hold |
| Abnormal Viscosity @ 40° | PC | Jun24/24 | Aluminum (ppm) | | | 2 Soot % 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | +72+72unr C + 72+72unr C |
| Abnormal Viscosity @ 40° | PC | Jun24/24 | Aluminum (ppm) | | | 2 Soot % 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | +27+2unf C + + - + - + - + - + |
| Abnormal Viscosity @ 40° | °C | Jun24(24) | Aluminum (ppm) | | | Soot ** | +2452unf C |
| Abnormal Viscosity @ 40° | | Lu-3ADA | Aluminum (ppm) | | | Jun24/24 Jun24 | +2747unr C |
| Abnormal Viscosity @ 40° | | Laboratory | Aluminum (ppm) 40 40 40 40 40 40 40 40 40 40 | 5 Appleby | | to state with the state of the | +72+72unr C |
| Viscosity @ 40 ⁴ | | Lu-3ADA | Aluminum (ppm) | | ved : 02 | Jun24/24 Jun24 | +2747unr C |

Lead (ppm) Severe Chromium (ppm) Silicon (ppm) Severe Soot % Severe Abnorm Jun24/24

VLITE NONE NONE NONE NONE NONE NORML NORML NEG NEG

PREVOST CAR 5H9 7655 TRANMERE DRIVE MISSISSAUGA, ON CA L5S 1L4 Marson el, VI, Visual) Contact: Tony Albino To discuss this sample report, contact Customer Service at 1-800-268-2131. tony.albino@volvo.con Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F:

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