



OIL ANALYSIS REPORT

Sample Rating Trend



Area
[W02008429]
 Machine Id
VOLVO EC350E 314308
 Component
Right Travel
 Fluid
GEAR OIL SAE 80W140 (2 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. Resample at the next service interval to monitor. (Customer Sample Comment: W02008429)

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ML0002387	---	---
Sample Date	Client Info	19 Jun 2024	---	---
Machine Age	hrs Client Info	3369	---	---
Oil Age	hrs Client Info	3369	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.25	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >1200	658	---	---
Chromium ppm	ASTM D5185m >20	8	---	---
Nickel ppm	ASTM D5185m >5	<1	---	---
Titanium ppm	ASTM D5185m	15	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >100	155	---	---
Lead ppm	ASTM D5185m >50	0	---	---
Copper ppm	ASTM D5185m >50	<1	---	---
Tin ppm	ASTM D5185m >5	<1	---	---
Vanadium ppm	ASTM D5185m	1	---	---
Cadmium ppm	ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 400	41	---	---
Barium ppm	ASTM D5185m 200	<1	---	---
Molybdenum ppm	ASTM D5185m 12	0	---	---
Manganese ppm	ASTM D5185m	8	---	---
Magnesium ppm	ASTM D5185m 12	30	---	---
Calcium ppm	ASTM D5185m 150	52	---	---
Phosphorus ppm	ASTM D5185m 1650	892	---	---
Zinc ppm	ASTM D5185m 125	48	---	---
Sulfur ppm	ASTM D5185m 22500	30724	---	---

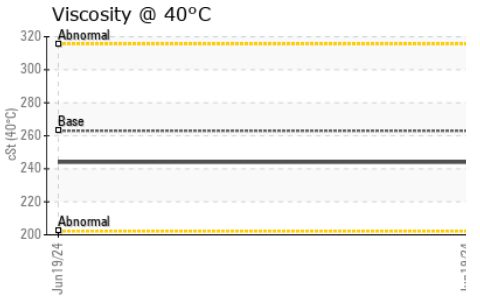
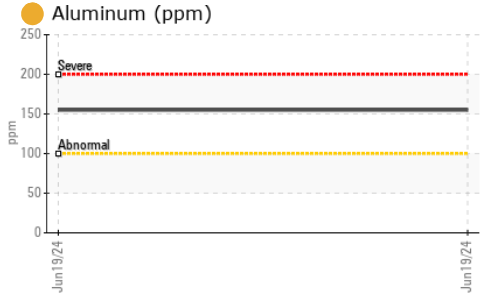
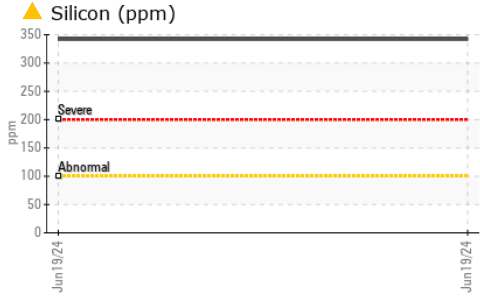
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >100	▲ 342	---	---
Sodium ppm	ASTM D5185m	21	---	---
Potassium ppm	ASTM D5185m >20	15	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	NONE	---	---
Yellow Metal scalar	*Visual NONE	NONE	---	---
Precipitate scalar	*Visual NONE	NONE	---	---
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	NEG	---	---
Free Water scalar	*Visual	NEG	---	---

OIL ANALYSIS REPORT

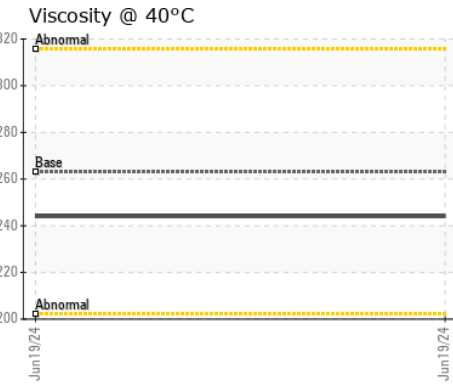
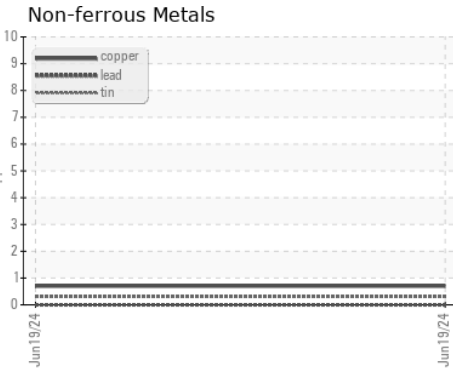
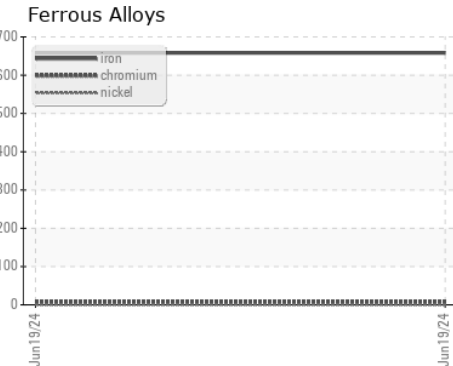


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	263	244	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002387
Lab Number : 06216374
Unique Number : 11089238
Test Package : CONST

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 23 Jun 2024 - Don Baldrige

WILLIAM HAZEL
 PO BOX 600
 CHANTILLY, VA
 US 20153

Contact: SERVICE MANAGER
 jimmy_elswick@wahazel.com
 T: (703)378-8300

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)