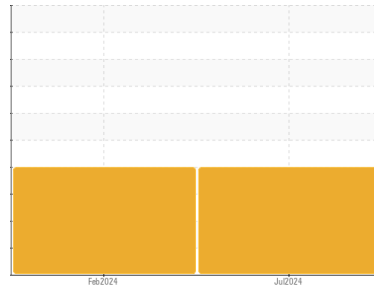


OIL ANALYSIS REPORT

Sample Rating Trend



Area
[W02008527]
 Machine Id
VOLVO EC350 314481
 Component
Front Front Left Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (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: W02008527)

Wear
 Gear wear is indicated.

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		ML0001040	WC0886337	---
Sample Date	Client Info		12 Jul 2024	16 Feb 2024	---
Machine Age	hrs	Client Info	2064	1536	---
Oil Age	hrs	Client Info	528	500	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 753	▲ 550	---
Chromium	ppm	ASTM D5185m >10	▲ 11	▲ 11	---
Nickel	ppm	ASTM D5185m >10	1	<1	---
Titanium	ppm	ASTM D5185m	3	4	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	● 28	● 37	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	<1	1	---
Tin	ppm	ASTM D5185m >10	<1	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 111	95	0	---
Barium	ppm	ASTM D5185m 0.0	0	15	---
Molybdenum	ppm	ASTM D5185m 0.9	<1	1	---
Manganese	ppm	ASTM D5185m 0.0	7	7	---
Magnesium	ppm	ASTM D5185m 39	13	5	---
Calcium	ppm	ASTM D5185m 93	26	16	---
Phosphorus	ppm	ASTM D5185m 920	949	355	---
Zinc	ppm	ASTM D5185m 104	16	0	---
Sulfur	ppm	ASTM D5185m 20179	33800	16707	---

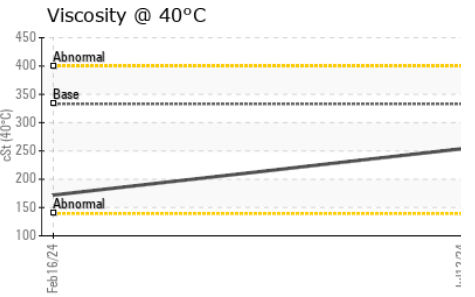
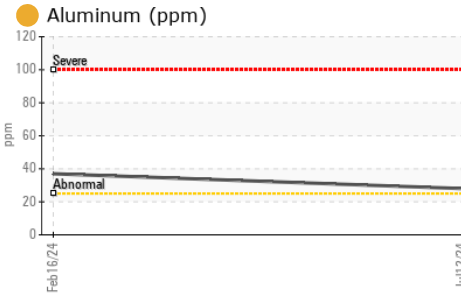
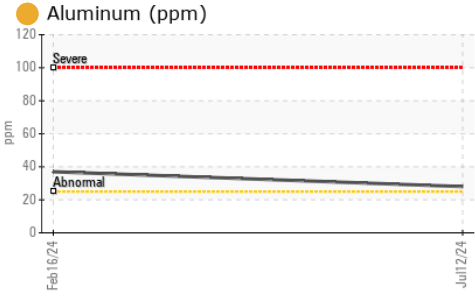
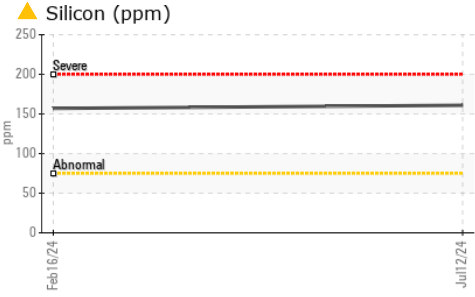
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 161	▲ 157	---
Sodium	ppm	ASTM D5185m	2	<1	---
Potassium	ppm	ASTM D5185m >20	9	11	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---

OIL ANALYSIS REPORT



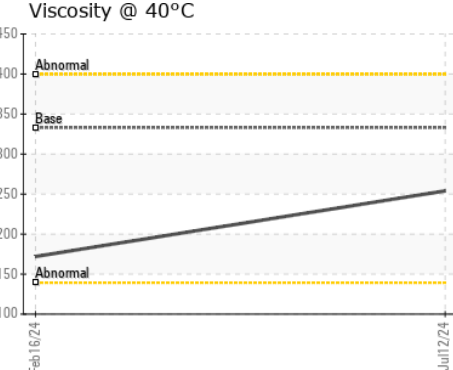
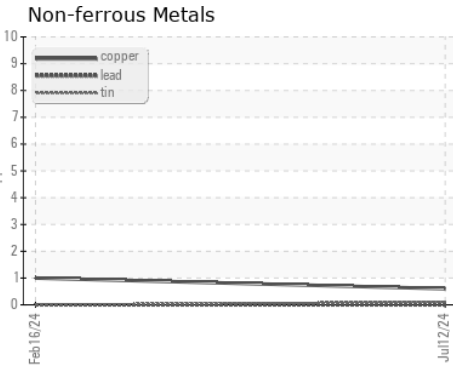
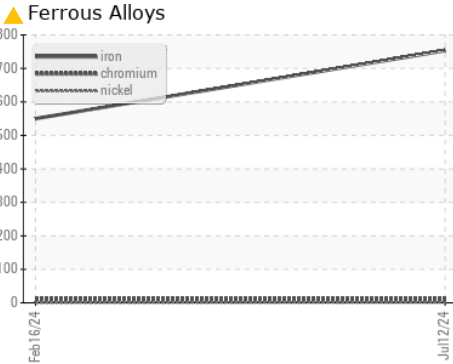
FLUID PROPERTIES

method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D445	333	254	172	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001040 **Received** : 15 Jul 2024
Lab Number : **06237200** **Tested** : 17 Jul 2024
Unique Number : 11126034 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : CONST

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: DARRELL ANDES
 dandes@mcclung-logan.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) F: (703)393-7844