



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area

[W/O 10825]

Machine Id

VOLVO EC250E 316471

Component

Left Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

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	ML0002178	---	---
Sample Date	Client Info	03 Jun 2024	---	---
Machine Age	hrs	Client Info	634	---
Oil Age	hrs	Client Info	634	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	306	---
Chromium	ppm	ASTM D5185m	>10	7	---
Nickel	ppm	ASTM D5185m	>10	0	---
Titanium	ppm	ASTM D5185m		1	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	24	---
Lead	ppm	ASTM D5185m	>25	0	---
Copper	ppm	ASTM D5185m	>50	<1	---
Tin	ppm	ASTM D5185m	>10	0	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	111	0	---
Barium	ppm	ASTM D5185m	0.0	1	---
Molybdenum	ppm	ASTM D5185m	0.9	<1	---
Manganese	ppm	ASTM D5185m	0.0	6	---
Magnesium	ppm	ASTM D5185m	39	8	---
Calcium	ppm	ASTM D5185m	93	14	---
Phosphorus	ppm	ASTM D5185m	920	308	---
Zinc	ppm	ASTM D5185m	104	9	---
Sulfur	ppm	ASTM D5185m	20179	17710	---

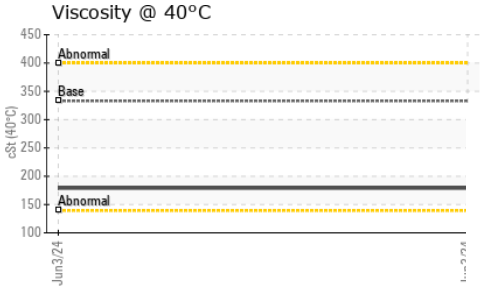
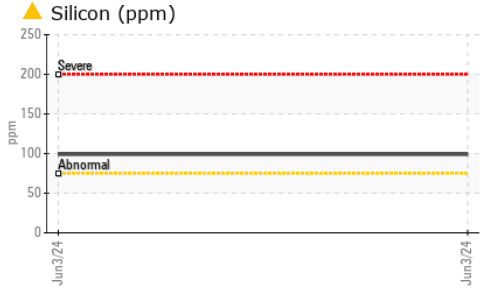
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	▲ 99	---
Sodium	ppm	ASTM D5185m		3	---
Potassium	ppm	ASTM D5185m	>20	4	---

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	MODER	---
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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

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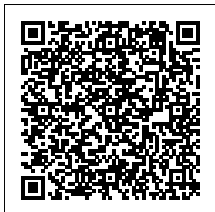
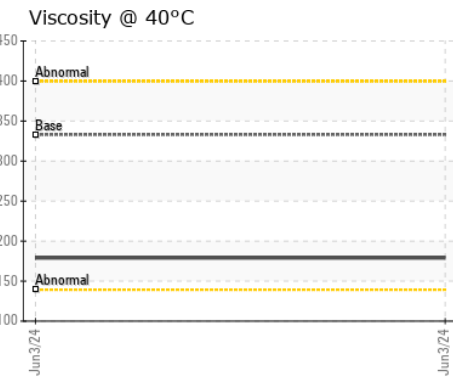
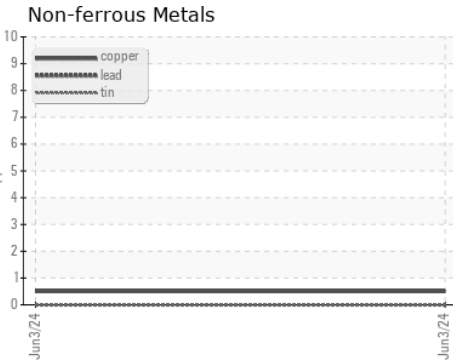
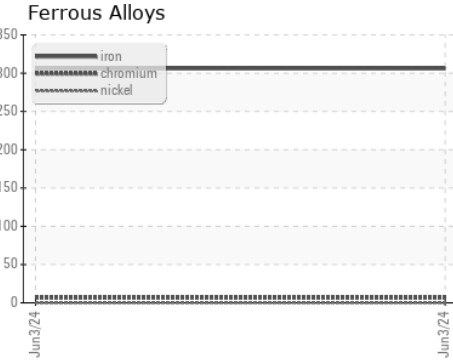
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 333	179	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
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. : ML0002178
Lab Number : 06203059
Unique Number : 11070520
Test Package : CONST

Received : 07 Jun 2024
Tested : 10 Jun 2024
Diagnosed : 10 Jun 2024 - Don Baldrige

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE
 4601 WASHINGTON BOULEVARD
 BALTIMORE, MD
 US 21227
 Contact: DELANO GREGORY
 dgregory@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: (410)242-7835