



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[5586]
Machine Id
VOLVO EC460CL 110437
Component
Left Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP290605	VCP171921	---
Sample Date		Client Info		06 Jan 2021	15 Dec 2015	---
Machine Age	hrs	Client Info		6082	4194	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	260	312	---
Chromium	ppm	ASTM D5185m		3	4	---
Nickel	ppm	ASTM D5185m		<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		1	0	---
Aluminum	ppm	ASTM D5185m		<1	6	---
Lead	ppm	ASTM D5185m	>50	<1	<1	---
Copper	ppm	ASTM D5185m	>50	13	22	---
Tin	ppm	ASTM D5185m		<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

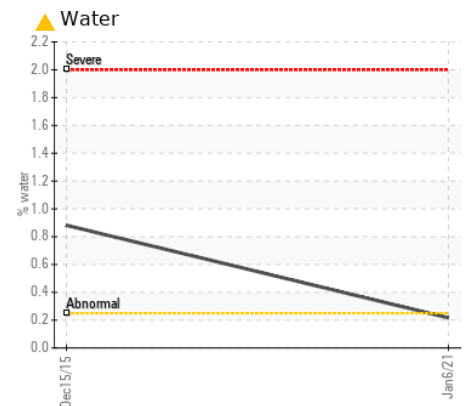
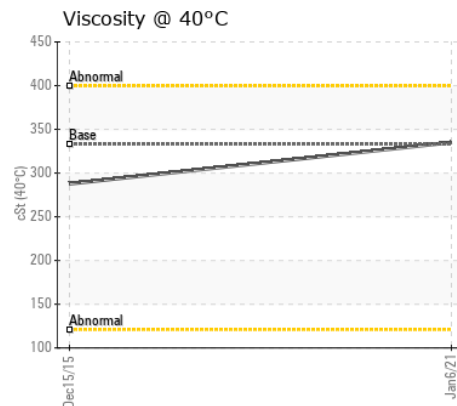
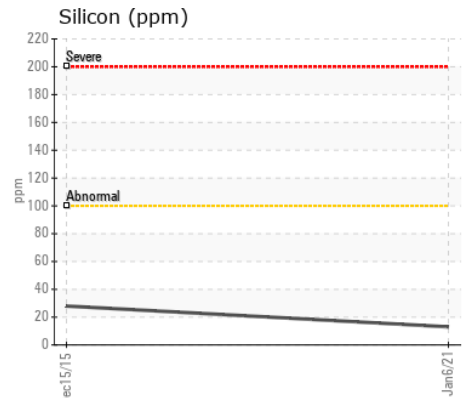
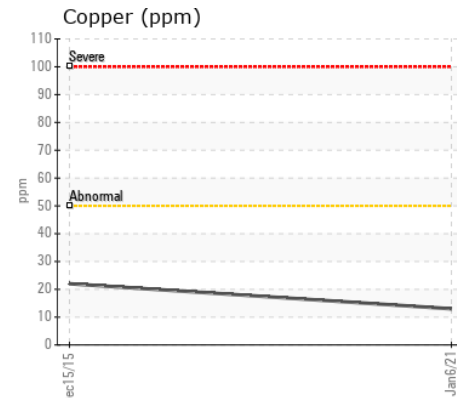
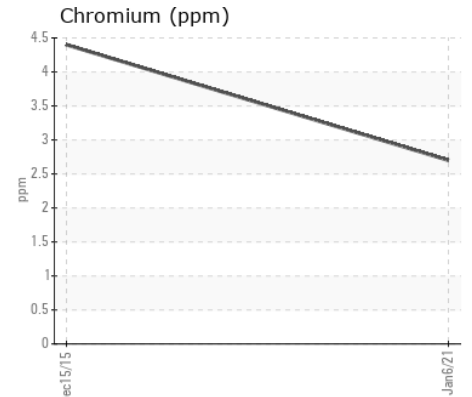
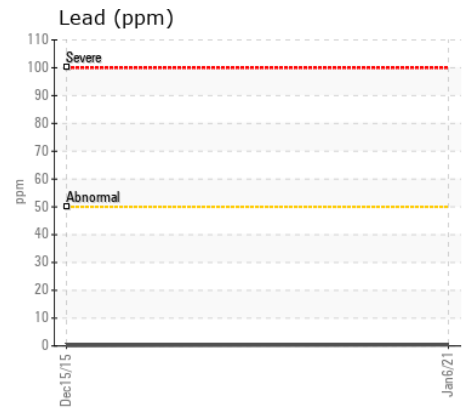
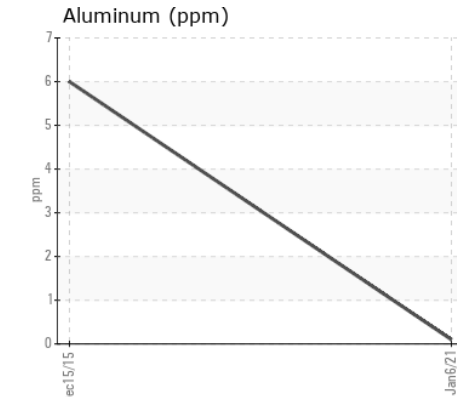
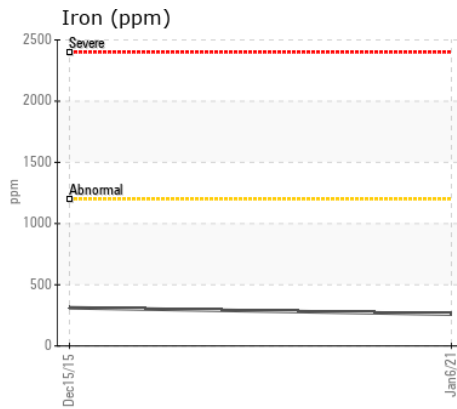
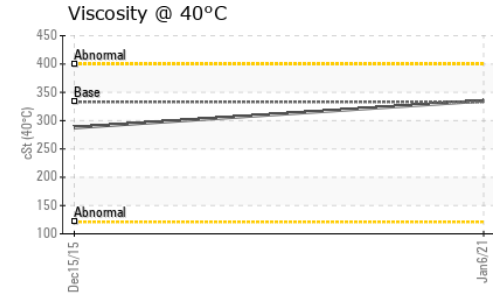
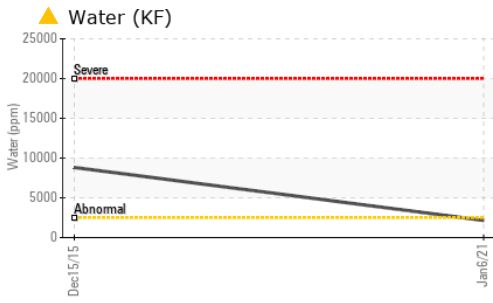
Appearance is milky. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	13	28	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water	%	ASTM D6304	>0.25	▲ 0.216	▲ 0.882	---
ppm Water	ppm	ASTM D6304	>2500	▲ 2160	▲ 8820	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ MILKY	▲ MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.25	0.2%	▲ 1.0%	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m	111	128	82	---
Barium	ppm	ASTM D5185m	0.0	<1	<1	---
Molybdenum	ppm	ASTM D5185m	0.9	<1	0	---
Manganese	ppm	ASTM D5185m	0.0	3	4	---
Magnesium	ppm	ASTM D5185m	39	6	4	---
Calcium	ppm	ASTM D5185m	93	25	39	---
Phosphorus	ppm	ASTM D5185m	920	917	768	---
Zinc	ppm	ASTM D5185m	104	46	61	---
Sulfur	ppm	ASTM D5185m	20179	19872	20781	---
Visc @ 40°C	cSt	ASTM D445	333	335	287.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP290605 **Received** : 08 Jan 2021
Lab Number : 05152928 **Tested** : 12 Jan 2021
Unique Number : 9313208 **Diagnosed** : 12 Jan 2021 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@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)

T:
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