



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP301207	VCP181447	---
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	168	288	---
Chromium	ppm	ASTM D5185m		2	4	---
Nickel	ppm	ASTM D5185m		<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m		0	3	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>50	9	20	---
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

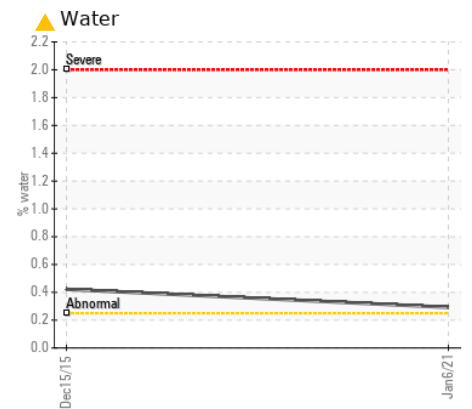
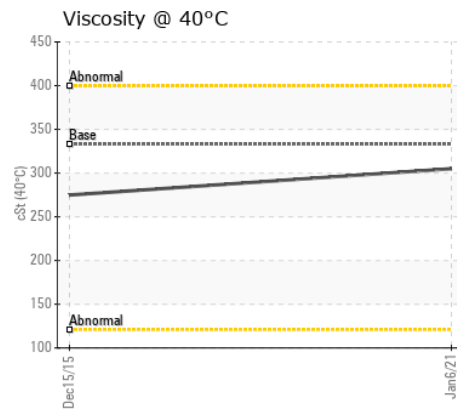
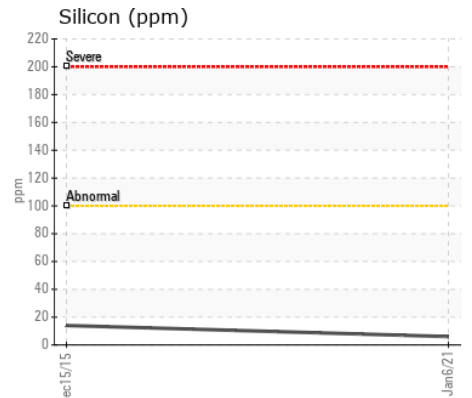
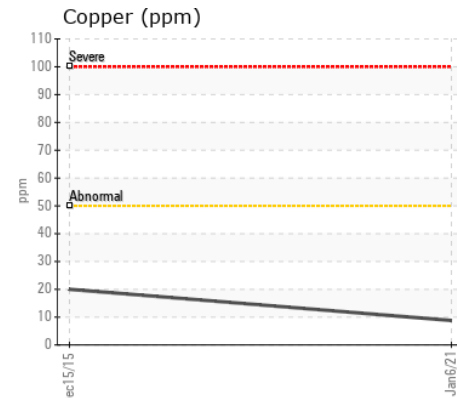
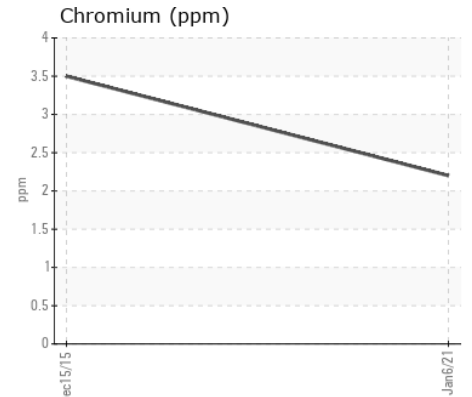
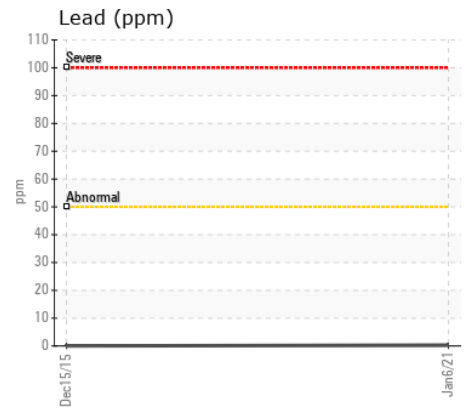
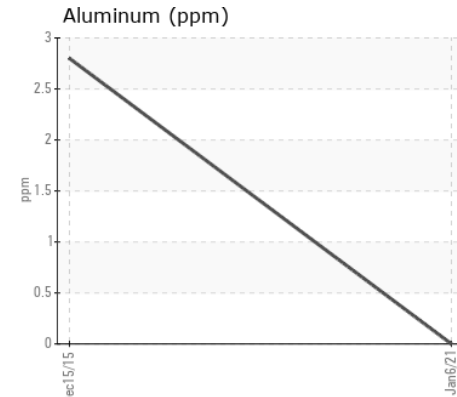
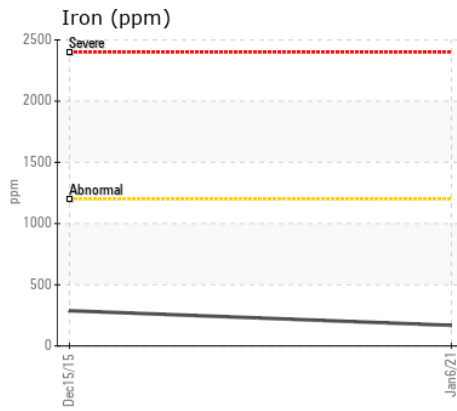
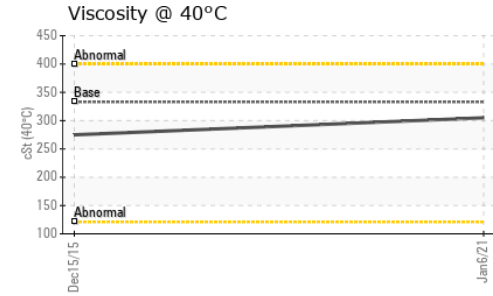
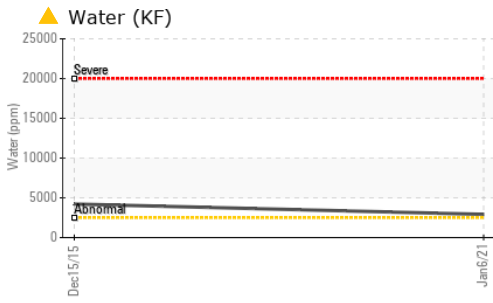
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	6	14	---
Potassium	ppm	ASTM D5185m	>20	<1	6	---
Water	%	ASTM D6304	>0.25	▲ 0.292	▲ 0.422	---
ppm Water	ppm	ASTM D6304	>2500	▲ 2920	▲ 4220	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.25	NEG	0.5%	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m	111	83	68	---
Barium	ppm	ASTM D5185m	0.0	0	<1	---
Molybdenum	ppm	ASTM D5185m	0.9	1	0	---
Manganese	ppm	ASTM D5185m	0.0	2	4	---
Magnesium	ppm	ASTM D5185m	39	15	5	---
Calcium	ppm	ASTM D5185m	93	52	35	---
Phosphorus	ppm	ASTM D5185m	920	812	807	---
Zinc	ppm	ASTM D5185m	104	68	73	---
Sulfur	ppm	ASTM D5185m	20179	17717	19476	---
Visc @ 40°C	cSt	ASTM D445	333	305	274.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP301207

Lab Number : 05152926

Unique Number : 9313206

Test Package : MOB 1 (Additional Tests: KF)

Received : 08 Jan 2021

Tested : 12 Jan 2021

Diagnosed : 12 Jan 2021 - Jonathan Hester

MCCLEUNG-LOGAN EQUIPMENT CO - RICHMOND

1345 MOUNTAIN ROAD

GLEN ALLEN, VA

US 23060

Contact: KYLE RATLIFFE

KRATLIFFE@MCCLEUNG-LOGAN.COM

T:

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: (804)266-1611