MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[621739]
Machine Id
VOLVO EC750 310137
Component
Rear Left Final Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

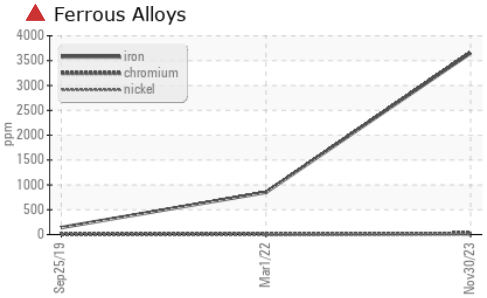
CONTAMINATION

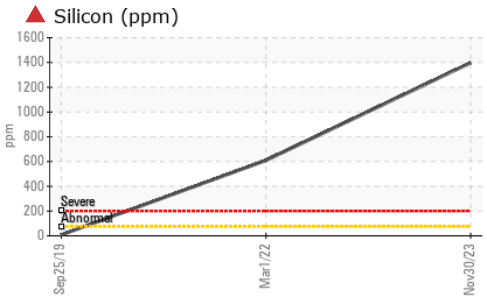
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

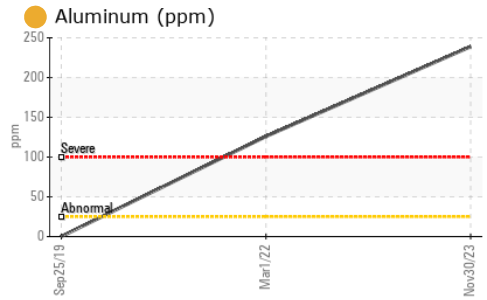
FLUID CONDITION

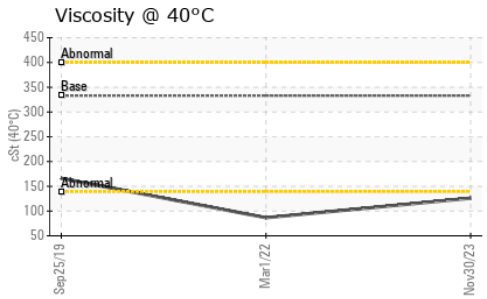
The oil is no longer serviceable due to the presence of contaminants.

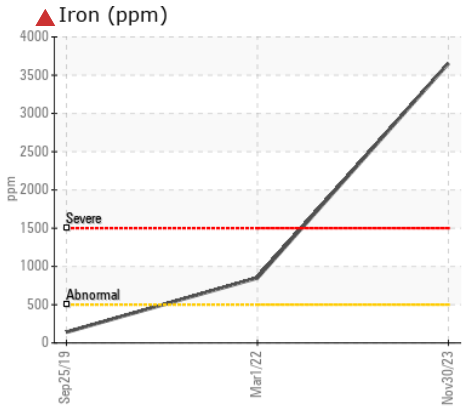
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP434765	VCP361870	VCP255627
Sample Date		Client Info		30 Nov 2023	01 Mar 2022	25 Sep 2019
Machine Age	hrs	Client Info		6059	4065	528
Oil Age	hrs	Client Info		2000	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>500	▲ 3654	▲ 850	141
Chromium	ppm	ASTM D5185m	>10	▲ 25	9	2
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		12	6	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 239	● 126	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1397	▲ 609	7
Potassium	ppm	ASTM D5185m	>20	91	40	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		38	14	2
Boron	ppm	ASTM D5185m	111	110	95	4
Barium	ppm	ASTM D5185m	0.0	2	0	11
Molybdenum	ppm	ASTM D5185m	0.9	8	23	0
Manganese	ppm	ASTM D5185m	0.0	29	11	3
Magnesium	ppm	ASTM D5185m	39	168	307	0
Calcium	ppm	ASTM D5185m	93	503	1152	4
Phosphorus	ppm	ASTM D5185m	920	1727	1253	421
Zinc	ppm	ASTM D5185m	104	165	523	6
Sulfur	ppm	ASTM D5185m	20179	25278	9085	13580
Visc @ 40°C	cSt	ASTM D445	333	126	86.6	166

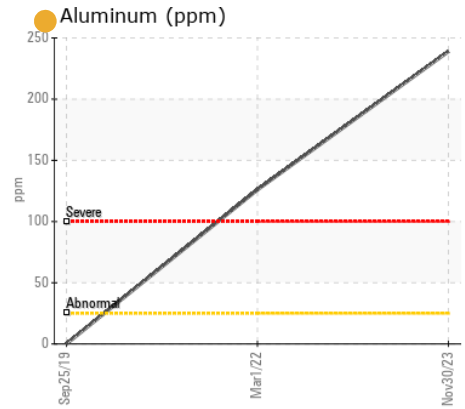


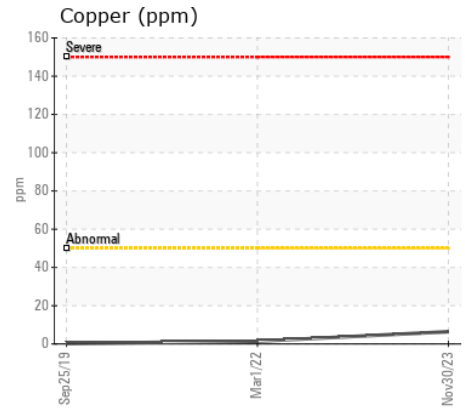


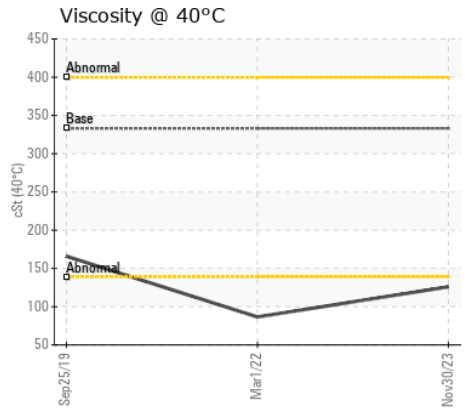


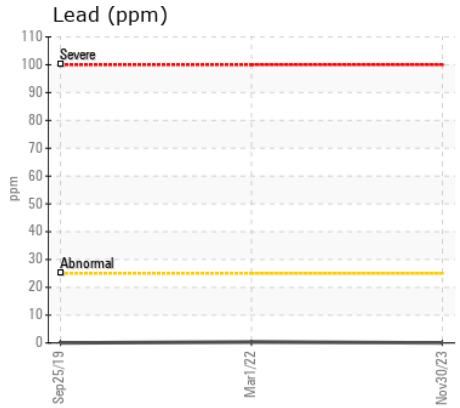


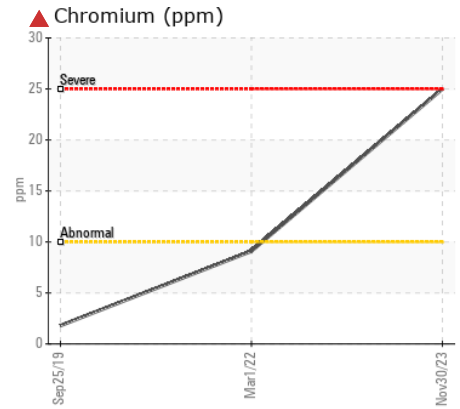


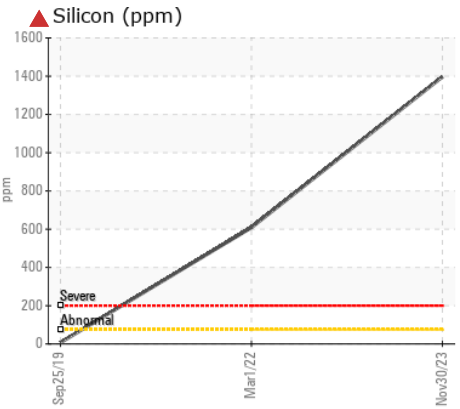


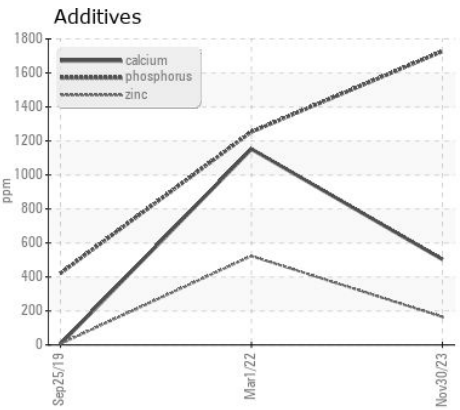












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP434765
Lab Number : 06029767
Unique Number : 10779558
Test Package : MOB 1

Received : 08 Dec 2023
Tested : 11 Dec 2023
Diagnosed : 12 Dec 2023 - Don Baldridge

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)

BLAZE CONSTRUCTION
5640 ST JEAN ST
DETROIT, MI
US 48213
Contact: DAVE WARD
dward@blazecontracting.net
T: (248)632-2317
F: