

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL



VOLVO L110H 631231

Front Axle

DIESEL ENGINE OIL SAE 15W40 (GAL)								
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
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 recommend an early resample to monitor this condition. NOTE: one of two samples received with same ID and sampling date.		Sample Number		Client Info	2.111071011	VCP440168	VCP432009	VCP435650
		Sample Date		Client Info		20 Feb 2024	20 Feb 2024	08 Nov 2023
		Machine Age	hrs	Client Info		12527	12827	12029
		Oil Age	hrs	Client Info		0	0	0
		Filter Age	hrs	Client Info		0	0	0
		Oil Changed		Client Info		Changed	N/A	Not Changd
		Filter Changed		Client Info		N/A	Changed	Not Changd
		Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR		Iron	ppm	ASTM D5185m	>500	465	57	24
Gear wear is indicated.	•	Chromium	ppm	ASTM D5185m	>20	3	0	0
		Nickel	ppm	ASTM D5185m	>10	2	0	0
		Titanium	ppm	ASTM D5185m		0	0	0
		Silver	ppm	ASTM D5185m		0	0	0
		Aluminum	ppm	ASTM D5185m	>30	5	<1	<1
		Lead	ppm	ASTM D5185m	>50	2	2	0
		Copper	ppm	ASTM D5185m	>120	<1	0	<1
		Tin	ppm	ASTM D5185m	>20	<1	<1	0
		Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	MODER	MODER	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
CONTAMINATION		Silicon	ppm	ASTM D5185m	>50	<u> </u>	14	12
There is a light concentration of water pr	r present in the oil. Elemental	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
level of silicon (Si) above normal.		Water	%	ASTM D6304	>0.2	△ 0.344		
		ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
		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	0.2% 	NEG	NEG
FLUID CONDITION The condition of the oil is acceptable	e for the time in service.	Sodium	ppm	ASTM D5185m	>158	2	1	3
		Boron	ppm	ASTM D5185m	250	128	137	132
		Barium	ppm	ASTM D5185m	10	0	0	0
		Molybdenum	ppm	ASTM D5185m	100	2	<1	<1
		Manganese	ppm	ASTM D5185m		3	<1	<1

Magnesium

Phosphorus

Visc @ 40°C

Calcium

Zinc

Sulfur

ppm

ppm

ppm

ppm

ppm

cSt

Report Id: RIPTAM [WUSCAR] 06102600 (Generated: 02/29/2024 20:40:37) Rev: 1

Contact/Location: PM Services ? - RIPTAM

25

4622

1558

1972

4382

41.5

17

4002

1316

1539

3955

43.8

ASTM D5185m 450

ASTM D5185m 3000

ASTM D5185m 1150

ASTM D5185m 4250

ASTM D445 115

1350

ASTM D5185m

21

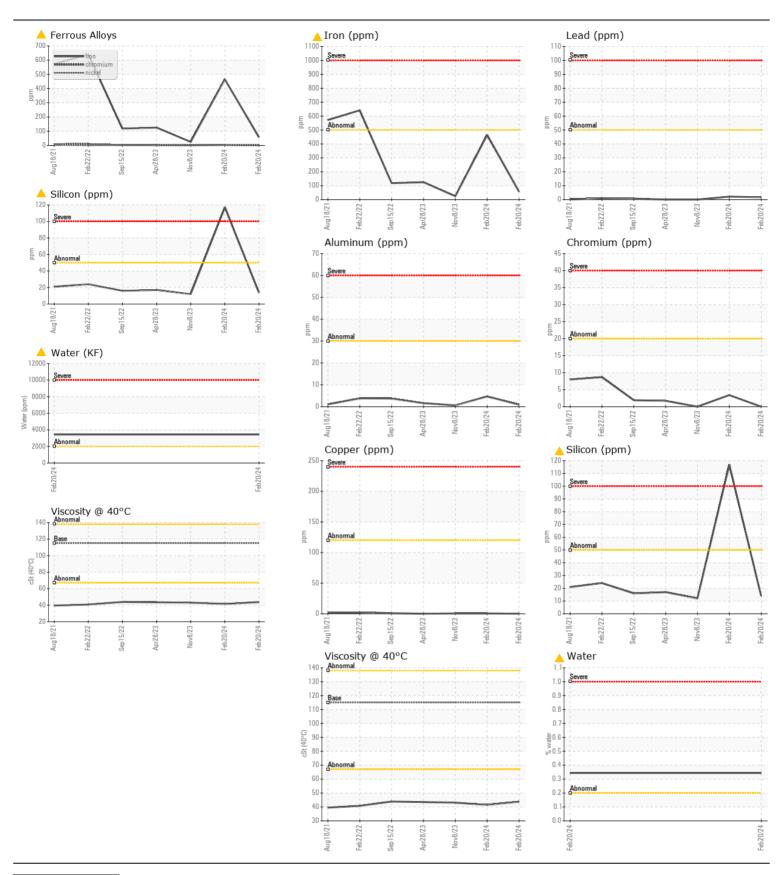
4060

1550

3750

43.08

1246





Certificate L2367

Laboratory Sample No.

Lab Number : 06102600

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP440168

Unique Number : 10900830

Tested Diagnosed

Received

: 27 Feb 2024

: 29 Feb 2024

: 29 Feb 2024 - Don Baldridge

Test Package : MOBCE (Additional Tests: KF)

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)

RIPA AND ASSOCIATES

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