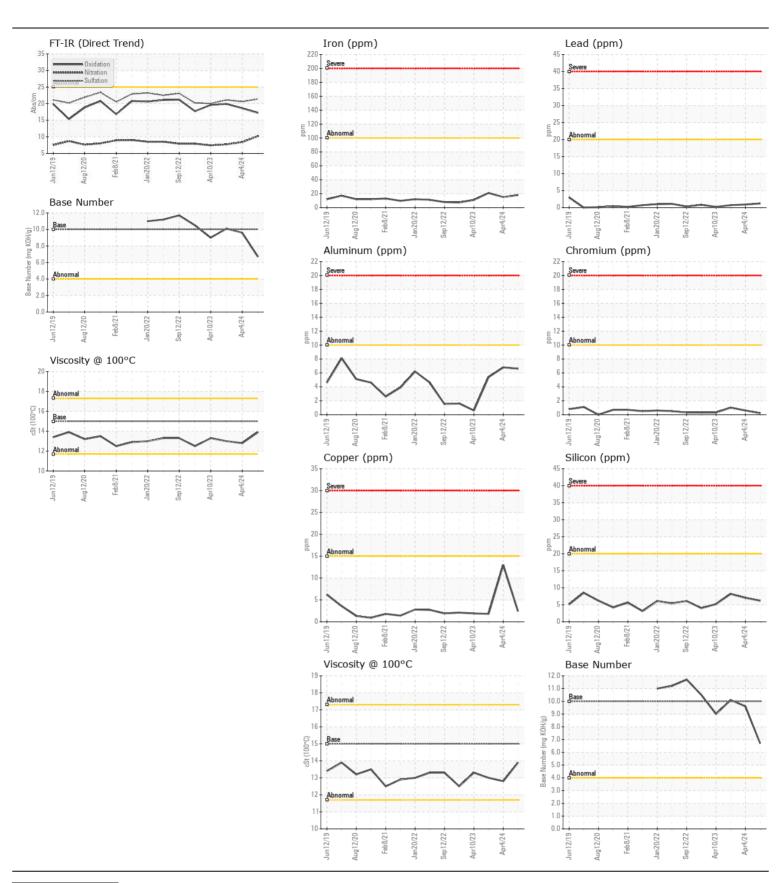
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 



## Machine Id **VOLVO L110H 631298**

Diesel Engine

	_				/ _	V	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP454949		VCP414216
	Sample Date		Client Info		20 May 2024	04 Apr 2024	18 Jul 2023
	Machine Age	hrs	Client Info		10020	8536	8405
	Oil Age	hrs	Client Info		0	500	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	18	15	21
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	1
	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		13	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		7	7	5
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m		2	13	2
	Tin	ppm	ASTM D5185m		1	2	2
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 20	e	7	8
	Potassium	ppm	ASTM D5185m		6 2	2	1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
					<1.0 NEG		NEG
	Water		WC Method WC Method	>0.1	NEG	NEG NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 0	0.4		
	Nitration		*ASTM D7624			0.3	0.3
	Sulfation	Abs/tmm		>20	10.2	8.4 20.6	7.7 21.1
		Abs/.1mm	*ASTM D7415		21.4		
	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	NORMI
	Odor Emulsified Water	scalar scalar	*Visual	NORML >0.1	NORML NEG	NORML NEG	NORMI NEG
	Linuisilled Water	Scalai	visuai	>0.1	·····	INLO	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		21	36	26
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		67	49	46
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		309	546	559
	Calcium	ppm	ASTM D5185m		1990	1729	1786
	Phosphorus	ppm	ASTM D5185m		1040	1127	1015
	Zinc	ppm	ASTM D5185m		1226	1200	1239
	Sulfur	ppm	ASTM D5185m		3932	3560	3890
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	18.6	19.9
	Base Number (BN) Visc @ 100°C	mg KOH/g cSt	ASTM D2896 ASTM D445		6.7 13.9	9.6 12.8	10.1







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP454949 Lab Number : 06193693

Unique Number : 11050445

Received **Tested** 

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 30 May 2024 : 30 May 2024 - Wes Davis

: 29 May 2024

**RIPA AND ASSOCIATES** 10149 FISHER AVENUE TAMPA, FL

US 33619 Contact: PM Services

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. PMServices@ripaconstruction.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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