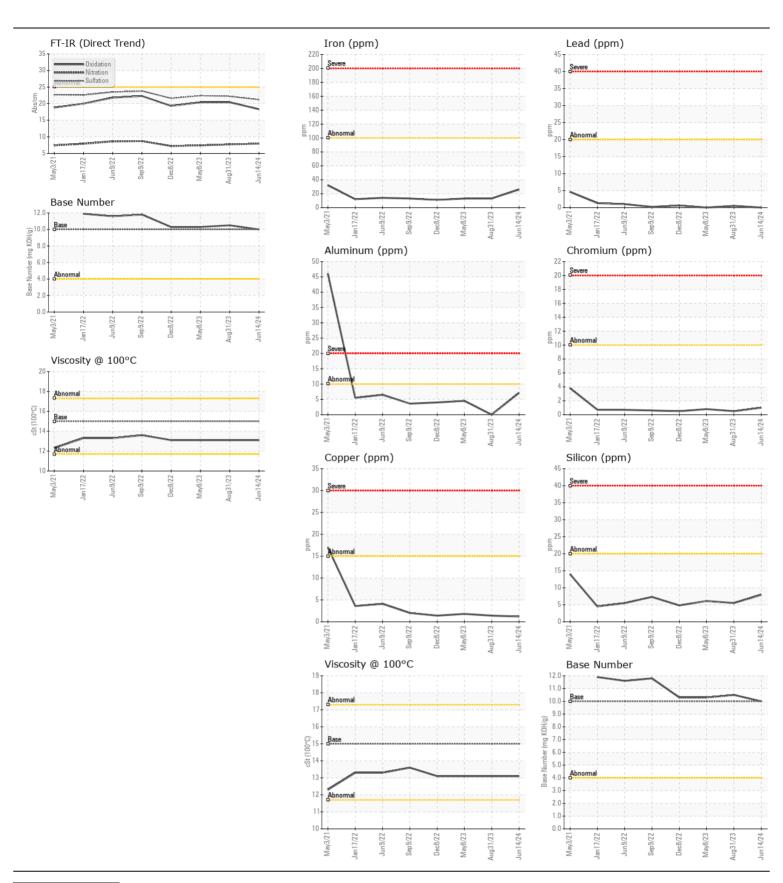
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[729565]

VOLVO L110H 631978 Component Diesel Engine



RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP440330	VCP433365	VCP41109
	Sample Date		Client Info		14 Jun 2024	31 Aug 2023	08 May 202
	Machine Age	hrs	Client Info		5953	4344	3755
	Oil Age	hrs	Client Info		500	500	0
	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
VEAR	Iron	ppm	ASTM D5185m	>100	26	13	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	710	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		7	0	4
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		1	1	2
	Tin	ppm	ASTM D5185m		0	1	1
	Vanadium	ppm	ASTM D5185m	7.0	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION	O'll'		AOTA DEADE		• • • • • • • • • • • • • • • • • • • •		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	2	1 1 0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol Soot %	0/	*ASTM D7844	. 0	NEG	NEG 0.5	NEG 0.4
		%			0.5	0.5	
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.9 21.2	7.7 22.2	7.4 22.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	0	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		24	25	33
	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		41	44	48
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		587	467	553
	Calcium	ppm	ASTM D5185m		1636	1608	1697
			ASTM D5185m	935	963	902	957
	Phosphorus	ppm				10	4 :
	Phosphorus Zinc	ppm	ASTM D5185m	1223	1104	1096	1170
	Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1223 4079	3485	3041	3646
	Phosphorus Zinc	ppm ppm Abs/.1mm	ASTM D5185m	1223 4079 >25			







Certificate L2367

Laboratory Sample No.

: VCP440330 Lab Number : 06237497

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

Tested Diagnosed

: 17 Jul 2024 - Wes Davis Unique Number : 11126331 Test Package : MOB 1 (Additional Tests: TBN)

: 16 Jul 2024

: 17 Jul 2024

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 10149 FISHER AVENUE

TAMPA, FL US 33619

Contact: PM Services PMServices@ripaconstruction.com

T: F: