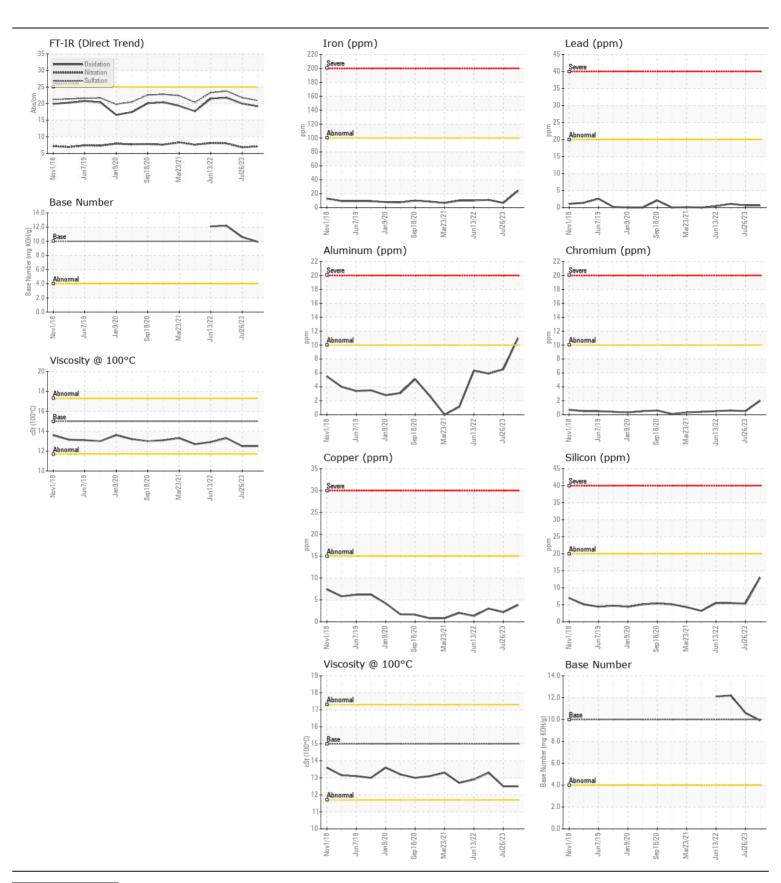
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



VOLVO L110H 631292

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP441658	VCP421232	VCP38847
	Sample Date		Client Info		29 Mar 2024	26 Jul 2023	26 Oct 202
	Machine Age	hrs	Client Info		9103	8611	8154
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	24	7	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	2	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	11	6	6
	Lead	ppm	ASTM D5185m	>20	<1	<1	1
	Copper	ppm	ASTM D5185m	>15	4	2	3
	Tin	ppm	ASTM D5185m	>10	1	1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	13	5	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	0
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.8	8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.8	23.8
	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	scalar	*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
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		50	46	52
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	45	43	41
	Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		487	533	498
	Calcium	ppm	ASTM D5185m		1669	1629	1734
	Phosphorus	ppm	ASTM D5185m		952	950	931
	Zinc	ppm	ASTM D5185m		1118	1170	1123
	Sulfur	ppm	ASTM D5185m		3375	3705	3571
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	20.0	21.8
	Base Number (BN)	mg KOH/g	ASTM D2896		9.9	10.6	12.2







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP441658 Lab Number : 06187250

Unique Number : 11044002

Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Diagnosed

: 22 May 2024 : 23 May 2024

: 23 May 2024 - Don Baldridge

RIPA AND ASSOCIATES 10149 FISHER AVENUE TAMPA, FL

US 33619 Contact: PM Services

PMServices@ripaconstruction.com T:

* - 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)

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