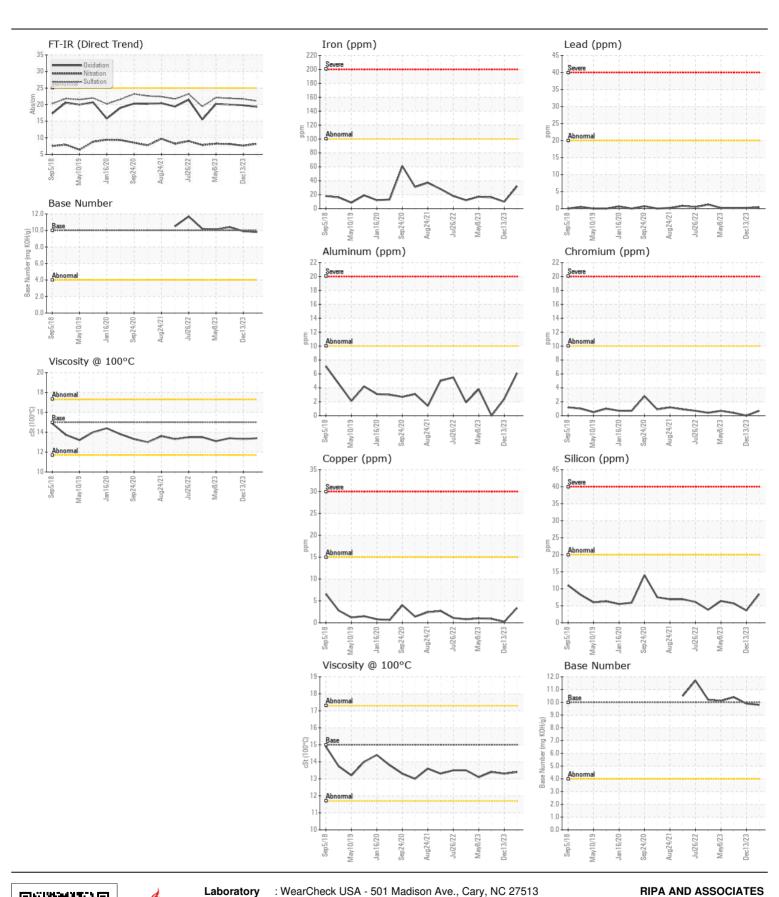


VOLVO L110H 631332

Diesel Engine

			S-3 (G	··· ··· /			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP443912	VCP440642	VCP426190
	Sample Date		Client Info		17 Apr 2024	13 Dec 2023	06 Sep 2023
	Machine Age	hrs	Client Info		10389	9794	9270
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	32	10	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	0	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	1	14
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		6	2	0
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		3	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<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	8	4	6
	Potassium	ppm	ASTM D5185m		2	1	2
There is no indication of any contamination in the oil.	Fuel	le le	WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.6	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	21.7	21.9
	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		*Visual	>0.1	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m		3	2	0
FLUID CONDITION	000.0						32
FLUID CONDITION	Boron	ppm	ASTM D5185m	2.5	48	47	0_
The BN result indicates that there is suitable alkalinity remaining in the		ppm ppm	ASTM D5185m ASTM D5185m		48 0	47 0	1
	Boron			0.0			
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm	ASTM D5185m	0.0	0	0	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m	0.0 0.7 0.0	0 45	0 33	1 39
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0.0 0.7 0.0 256	0 45 <1	0 33 0	1 39 <1
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.0 0.7 0.0 256 2057	0 45 <1 562	0 33 0 444	1 39 <1 476
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.0 0.7 0.0 256 2057	0 45 <1 562 1668	0 33 0 444 1789	1 39 <1 476 1624
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.0 0.7 0.0 256 2057 935 1223	0 45 <1 562 1668 1006	0 33 0 444 1789 910	1 39 <1 476 1624 933
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.0 0.7 0.0 256 2057 935 1223 4079	0 45 <1 562 1668 1006 1163	0 33 0 444 1789 910 1210	1 39 <1 476 1624 933 1128
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414	0.0 0.7 0.0 256 2057 935 1223 4079 >25	0 45 <1 562 1668 1006 1163 3492	0 33 0 444 1789 910 1210 3006	1 39 <1 476 1624 933 1128 3232







Certificate L2367

Laboratory

Sample No. Lab Number : 06193689

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP443912

Received **Tested** Unique Number : 11050441 Test Package : MOB 1 (Additional Tests: TBN)

Diagnosed

: 30 May 2024 : 30 May 2024 - Wes Davis

: 29 May 2024

10149 FISHER AVENUE TAMPA, FL US 33619

Contact: PM Services PMServices@ripaconstruction.com

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)

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