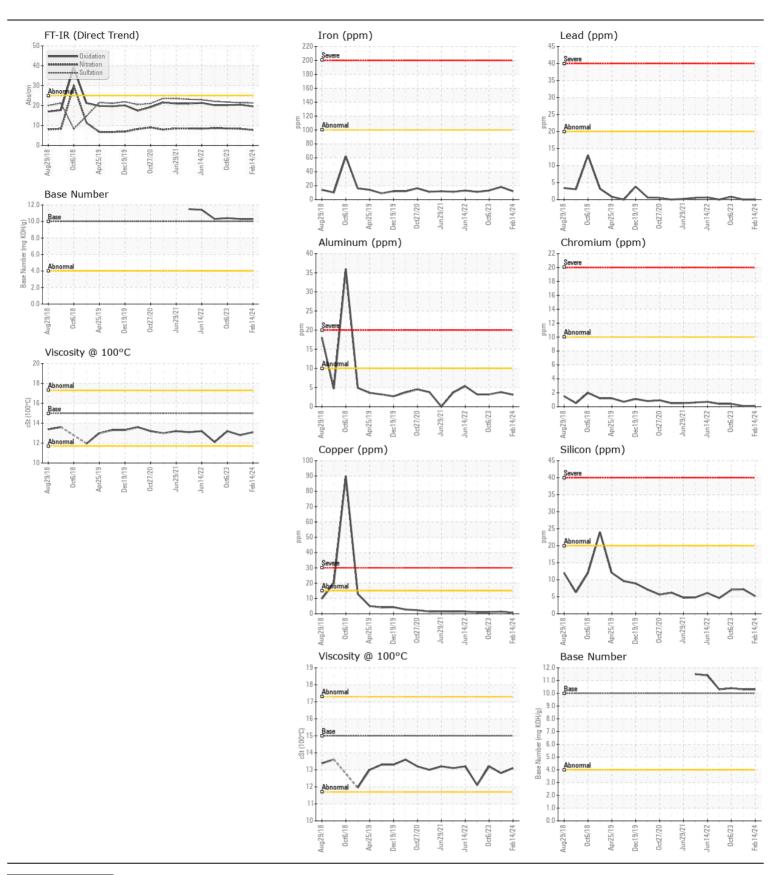


Machine Id VOLVO L110H 631289

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP428649	VCP432481	VCP43177
	Sample Date		Client Info		14 Feb 2024	26 Oct 2023	06 Oct 202
	Machine Age	hrs	Client Info		8659	8947	8187
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	12	18	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	3
	Lead	ppm	ASTM D5185m	>20	0	0	<1
	Copper	ppm	ASTM D5185m	>15	<1	1	1
	Tin	ppm	ASTM D5185m	>10	0	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	5	7	7
	Potassium	ppm	ASTM D5185m	>20	0	<1	0
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.3	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.4	21.7
	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	0	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	2.5	34	25	23
	Barium	ppm	ASTM D5185m	0.0	0	2	0
	Molybdenum	ppm	ASTM D5185m	0.7	41	47	45
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		534	485	550
	Calcium	ppm	ASTM D5185m		2002	1643	1681
	Phosphorus	ppm	ASTM D5185m		1033	853	1010
	Zinc	ppm	ASTM D5185m		1238	1061	1237
	0 1/	ppm	ASTM D5185m	4079	3627	3161	3121
	Sulfur						
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	19.6 10.3	20.4	20.2





Certificate L2367

Laboratory Sample No.

Lab Number : 06160006

: VCP428649

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

Received **Tested** Unique Number: 10995429 Diagnosed : 25 Apr 2024

: 25 Apr 2024

: 25 Apr 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

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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