

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area [A12259] Machine Id VOLVO L110H 632555 Component Diesel Engine Fluid MOBIL 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP407248	VCP428733	VCP430367
Resample at the next service interval to monitor.	Sample Date		Client Info		06 Mar 2024	21 Dec 2023	03 Oct 2023
	Machine Age	hrs	Client Info		3345	2515	1760
	Oil Age	hrs	Client Info		500	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	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		12	9	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		7	5	5
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		2	5	<u> </u>
	Tin	ppm	ASTM D5185m	>10	1	<1	1
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	2
	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		0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.4	7.1
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		17.9 NONE	17.4	17.8 NONE
	Debris	scalar scalar	*Visual	NONE NONE	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	<1
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		6	6	7
	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		9	12 <1	23 <1
	Manganese Magnesium	ppm	ASTM D5185m		<1 100	174	270
	Calcium	ppm ppm	ASTM D5185m		2192	2008	1821
	Phosphorus	ppm	ASTM D5185m		916	893	856
	Zinc	ppm	ASTM D5185m		1086	1081	1051
	Sulfur	ppm	ASTM D5185m		4002	3448	3638
	Oxidation	Abs/.1mm	*ASTM D310311	>25	10.9	10.8	12.4
	Chidation	/ 100/ . 111111		~	10.0	10.0	16.7

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

6.4

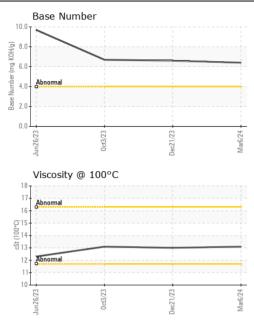
13.1

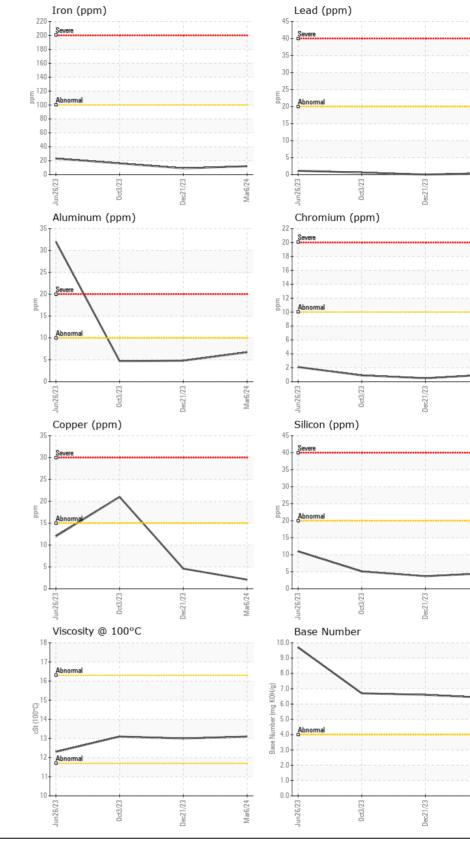
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6.6

13.0





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 HMR ASSOCIATES Laboratory Sample No. : VCP407248 PO BOX 485 Received : 20 Mar 2024 Lab Number : 06123422 : 21 Mar 2024 TOUGHKENAMON, PA Tested Unique Number : 10937573 : 21 Mar 2024 - Wes Davis US 19374 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: SERVICE MANAGER Certificate L2367 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (610)268-2225

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Contact/Location: SERVICE MANAGER - HMRTOU

Mar6/24

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