

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Area [A12263] Machine Id VOLVO L110H 632378 Component Diesel Engine Fluid MOBIL 15W40 (---- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00101	Client Info	LITTIUAUT	VCP446019	VCP439488	VCP414301
	Sample Date		Client Info		05 Mar 2024	22 Dec 2023	31 Jul 2023
	Machine Age	hrs	Client Info		2555	2310	1895
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	6	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m		5	6	4
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m	>15	1	2	7
	Tin	ppm	ASTM D5185m	>10	<1	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	4	4
	Potassium	ppm	ASTM D5185m	>20	2	<1	2
There is no indication of any contamination in the oil.	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	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.9	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.9	17.9	18.4
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	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		7	12	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		10	30	15
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		118	436	176
	Calcium	ppm	ASTM D5185m		2131	1706	2184
	Phosphorus	ppm	ASTM D5185m		926	970	893
	Zinc	ppm	ASTM D5185m		1075	1138	1180
	Sulfur	ppm	ASTM D5185m	05	4004	3430	4242
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.8	12.4	12.7

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

7.3

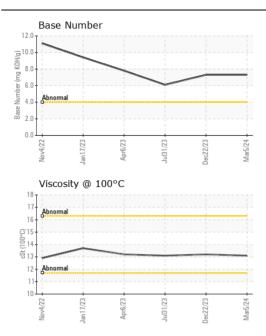
13.2

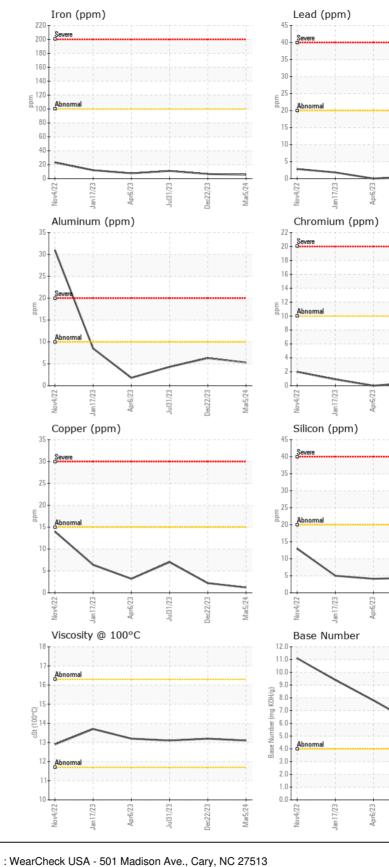
7.3

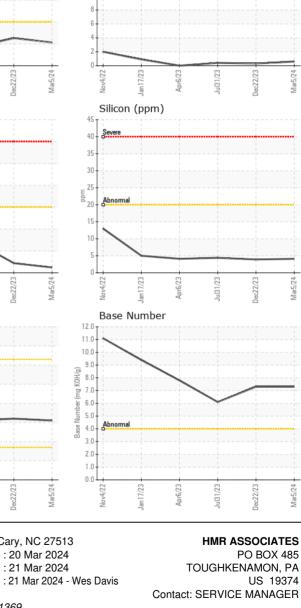
13.1

6.1

13.1

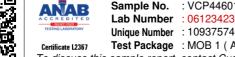






Mar5/24

ec22/23



Laboratory

: VCP446019

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. F: (610)268-2225 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

: 20 Mar 2024

: 21 Mar 2024

Report Id: HMRTOU [WUSCAR] 06123423 (Generated: 03/21/2024 04:35:44) Rev: 1

Contact/Location: SERVICE MANAGER - HMRTOU

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