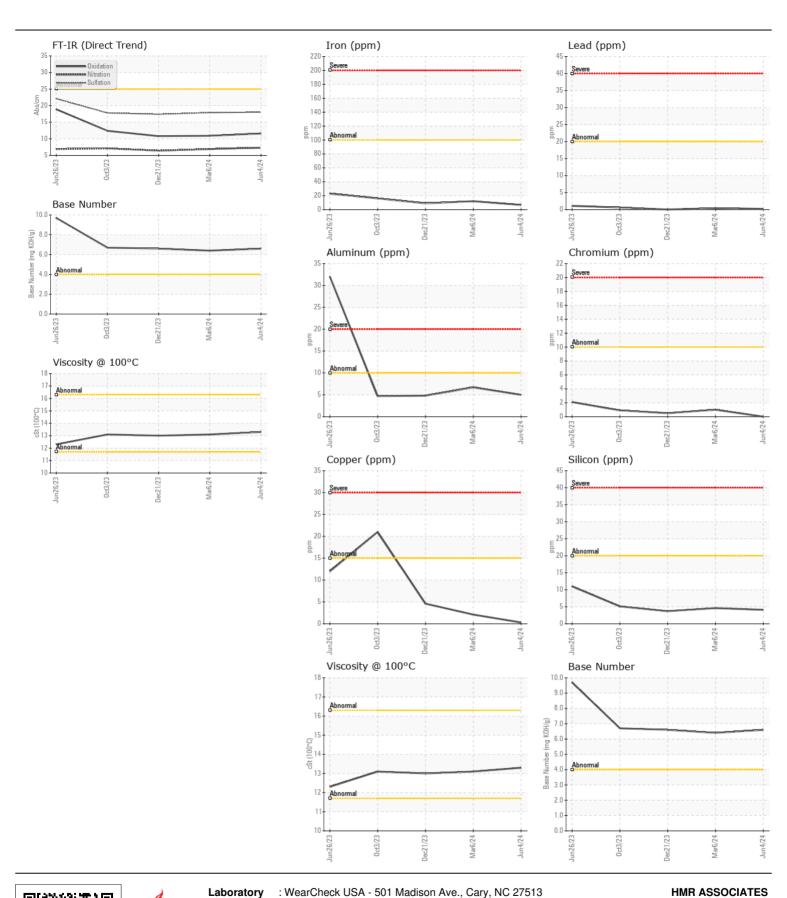
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[A12796] VOLVO L110H 632555

Diesel Engine

MOBIL 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP445226	VCP407248	
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jun 2024	06 Mar 2024	21 Dec 2023
	Machine Age	hrs	Client Info		4100	3345	2515
	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	7	12	9
WEAT	Chromium	ppm	ASTM D5185m		0	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		26	1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>10	5	7	5
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>15	<1	2	5
	Tin	ppm	ASTM D5185m	>10	<1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTA DE40E	00			4
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	5 2	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		5		<1
	Water		WC Method		<1.0 NEG	<1.0 NEG	<1.0 NEG
	Glycol		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 2	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.9	6.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.0	17.9	17.4
	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
ELUID CONDITION	0 11:		AOTA DE40E	440			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	3	2	<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		35	6	6
	Barium	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m ASTM D5185m		6	9 <1	12
	Manganese Magnesium	ppm	ASTM D5185m		<1 209	100	<1 174
	Calcium	ppm	ASTM D5185m		2138	2192	2008
	Phosphorus	ppm	ASTM D5185m		975	916	893
	Zinc	ppm	ASTM D5185m		1182	1086	1081
	Sulfur	ppm	ASTM D5185m		4446	4002	3448
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6	10.9	10.8
	Base Number (BN)			7 20	6.6	6.4	6.6
	Visc @ 100°C	cSt	ASTM D445		13.3	13.1	13.0
		-			\ J		





Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP445226 Lab Number : 06215401

Unique Number : 11088265

Received : 20 Jun 2024 **Tested** Diagnosed

: 21 Jun 2024 : 21 Jun 2024 - Wes Davis

PO BOX 485 TOUGHKENAMON, PA

Contact: SERVICE MANAGER

Test Package : MOB 1 (Additional Tests: TBN) 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (610)268-2225

US 19374