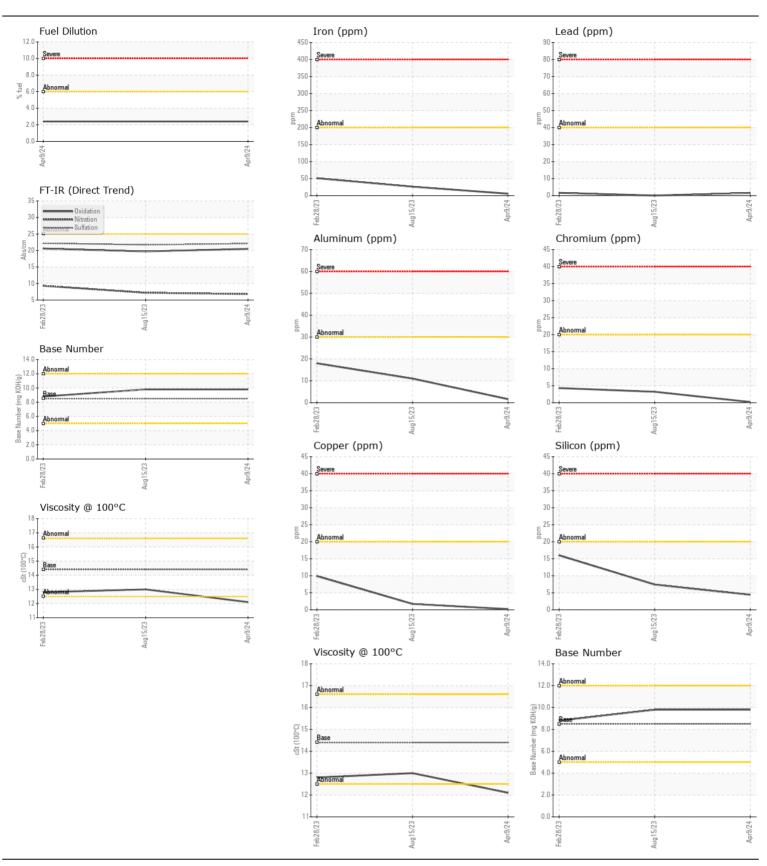
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[\$50403254]

VOLVO L90H 626333



DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number	00	Client Info	21111071011	VCP440875	,	VCP400409
	Sample Date		Client Info		09 Apr 2024	15 Aug 2023	28 Feb 2023
	Machine Age	hrs	Client Info		4565	2851	1718
	Oil Age	hrs	Client Info		0	0	0
	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	>200	6	26	51
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	3	4
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	11	18
	Lead	ppm	ASTM D5185m		2	0	2
	Copper	ppm	ASTM D5185m		<1	2	10
	Tin	ppm	ASTM D5185m	>20	<1	2	3
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE	0 NONE	<1 NONE
	Yellow Metal	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Tellow Metal	Scalai	Visuai	INOINL	INOINE	INOINL	NONL
CONTAMINATION Light fuel dilution occurring. No other contaminants were detected in the oil.	Silicon	ppm	ASTM D5185m	>20	4	7	16
	Potassium	ppm	ASTM D5185m	>20	0	1	0
	Fuel	%	ASTM D3524	>6.0	2.4	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.2	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	21.7	22.2
	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 NORML
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NEG
<u></u>		Scalai	*Visual	>0.2	NEG	INEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	4
	Boron	ppm	ASTM D5185m	250	35	25	21
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	40	41	42
	Manganese	ppm	ASTM D5185m		<1	1	5
	Magnesium	ppm	ASTM D5185m		524	564	567
	Calcium	ppm	ASTM D5185m		1776	1773	1628
	Phosphorus	ppm	ASTM D5185m		948	968	876
	Zinc	ppm	ASTM D5185m		1083	1218	1098
	Sulfur	ppm	ASTM D5185m		3298	3560	3108
	Oxidation	Abs/.1mm	*ASTM D7414		20.5	19.7	20.6
	Base Number (BN)	0 0			9.8	9.8	8.8
	Visc @ 100°C	cSt	ASTM D445	14.4	12.1	13.0	12.8





Laboratory

Sample No.

: VCP440875 Lab Number : 06154127

Unique Number: 10989550

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

IAA - INSURANCE AUTO AUCTIONS - WESTCHESTER VC 2 WESTBROOK CORPORATE CENTER STE. 5 WESTCHESTER, IL

US 60154 Contact: BILLY BUTLER

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) T: (404)275-6868