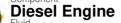
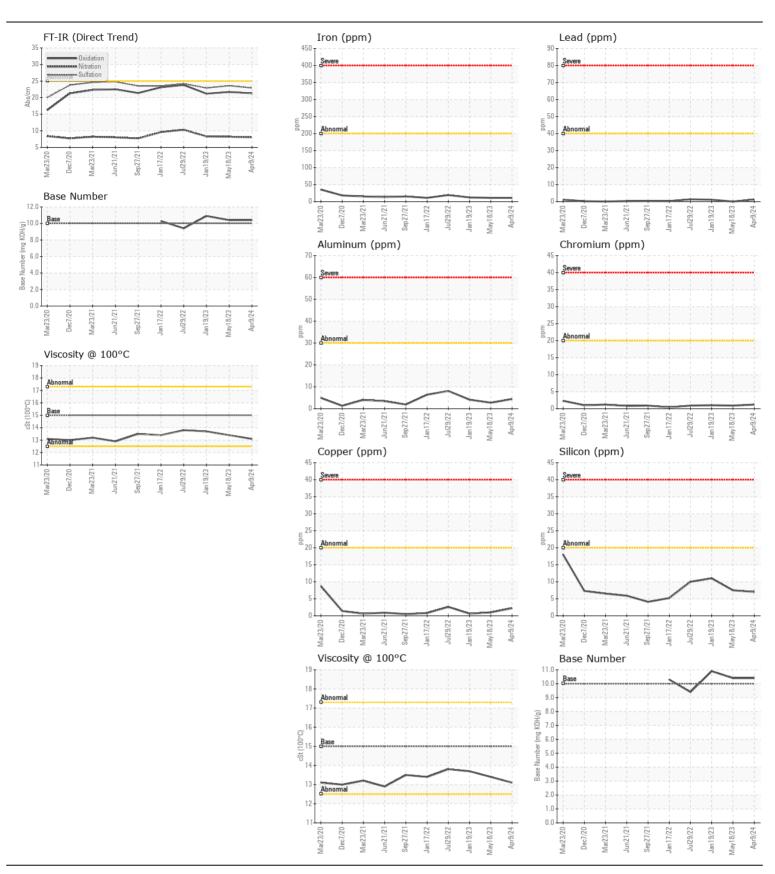
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## [S50403270]

VOLVO L90H 625153



Sample Number   Client Info   VCP448876   VCP496878   VCP496878   VCP496878   VCP496876   VCP496876	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date   Client Info   69 Apr 2024   8 May 2024   9 Jan 20		Sample Number		Client Info			VCP406284	VCP37505
Machine Age   hrs	Resample at the next service interval to monitor.						18 May 2023	19 Jan 202
Col Age		·	hrs	Client Info				
Filter Age		Oil Age	hrs	Client Info		0	0	
Oil Changed   Client Info   Changed   Change			hrs	Client Info		0	0	0
Filter Changed   Changed		•				Changed	Changed	Changed
Iran		_		Client Info		_	_	
Chromium   ppm   ASTM D5185m   >20   1   <1   1   1   1   1   1   1   1		_				_		NORMAL
Chromium   ppm   ASTM D5185m   >20   1   <1   1   1   1   1   1   1   1	WEAR	Iron	ppm	ASTM D5185m	>200	11	11	12
Titanium   ppm   ASTM D5185m   <1   <1   <1   <1   <1   <1   <1   <	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	<1	1
Titanium   ppm   ASTM D5186m   <1   <1   <1   <1   <1   <1   <1   <		Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Silver		Titanium		ASTM D5185m		<1	<1	<1
Aluminum   ppm   ASTM D5185m   >30   4   3   4		Silver		ASTM D5185m	>2	<1	<1	0
Lead		Aluminum		ASTM D5185m	>30	4	3	4
Copper		Lead				1	0	
Time		Copper		ASTM D5185m	>20	2	1	<1
White Metal   Scalar   *Visual   NONE   NO			ppm			2	<1	<1
Silicon   ppm   ASTM D5185m   >20   7   8   11		Vanadium	ppm	ASTM D5185m		<1	<1	0
Silicon   ppm   ASTM D5185m   >20   7   8   11		White Metal	scalar		NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 2 2 2 2 2 2 Fuel W CMethod >6.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 2 2 2 2 2 2 Fuel W CMethod >6.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	7	8	11
Water	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	2
Glycol   Soot % % 'ASTM D7844   -3   0.5   0.6   0.6   0.6		Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol   WC Method   NEG   NEG   NEG		Water		WC Method	>0.2	NEG	NEG	NEG
Soot %		Glycol		WC Method		NEG	NEG	NEG
Nitration   Abs/cm   *ASTM D7624   >20   8.0   8.2   8.3			%	*ASTM D7844	>3	0.5	0.6	0.6
Silt   scalar *Visual   NONE   NORML   NO		Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.2	
Debris   Scalar   *Visual   NONE   NORE   NONE		Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	23.6	22.9
Sand/Dirt   Scalar   *Visual   NONE   NONE   NONE   Appearance   Scalar   *Visual   NORML		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance   Scalar   Visual   NORML   NORML		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Codor   Scalar   *Visual   NORML   N		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water   scalar   *Visual   >0.2   NEG   NEG   NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
Sodium   ppm   ASTM D5185m   2   4   2		Odor	scalar	*Visual	NORML	NORML	NORML	NORN
The BN result indicates that there is suitable alkalinity remaining in the sil. The condition of the oil is suitable for further service.    Boron		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
The BN result indicates that there is suitable alkalinity remaining in the sil. The condition of the oil is suitable for further service.    Barium   ppm   ASTM D5185m   0.0   0   0   0   0   0   0   0   0	FLUID CONDITION	Sodium	ppm					
Molybdenum   ppm   ASTM D5185m   0.0   1   <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	2.5	34	38	34
Molybdenum         ppm         ASTM D5185m         0.7         42         42         44           Manganese         ppm         ASTM D5185m         0.0         1         <1         <1           Magnesium         ppm         ASTM D5185m         256         490         551         545           Calcium         ppm         ASTM D5185m         2057         1733         1805         1848           Phosphorus         ppm         ASTM D5185m         935         1021         989         1023           Zinc         ppm         ASTM D5185m         1223         1133         1223         1244           Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9		Barium	ppm				0	
Magnesium         ppm         ASTM D5185m         256         490         551         545           Calcium         ppm         ASTM D5185m         2057         1733         1805         1848           Phosphorus         ppm         ASTM D5185m         935         1021         989         1023           Zinc         ppm         ASTM D5185m         1223         1133         1223         1244           Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9			ppm			42	42	
Calcium         ppm         ASTM D5185m         2057         1733         1805         1848           Phosphorus         ppm         ASTM D5185m         935         1021         989         1023           Zinc         ppm         ASTM D5185m         1223         1133         1223         1244           Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9		_	ppm					
Phosphorus         ppm         ASTM D5185m         935         1021         989         1023           Zinc         ppm         ASTM D5185m         1223         1133         1223         1244           Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9		_	ppm					
Zinc         ppm         ASTM D5185m         1223         1133         1223         1244           Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9			ppm					
Sulfur         ppm         ASTM D5185m         4079         3230         3325         3683           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9		•	ppm					
Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3         21.7         21.2           Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9			ppm					
Base Number (BN)         mg KOH/g         ASTM D2896         10         10.4         10.4         10.9			ppm			3230	3325	
		Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	21.7	
Visc @ 100°C cSt ASTM D445 15.0 13.1 13.4 13.7		Base Number (BN)	mg KOH/g	ASTM D2896	10	10.4	10.4	10.9
		Visc @ 100°C	cSt	ASTM D445	15.0	13.1	13.4	13.7





Laboratory Sample No.

Lab Number : 06152853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP440876

Received Tested Unique Number: 10982931 Diagnosed

: 18 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Wes Davis

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

WESTCHESTER, IL US 60154

Contact: BILLY BUTLER

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)

T: (404)275-6868 F: