WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Area [SPM647553-10] **VOLVO L90H 625804**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
TIE SOMMENDATION TO	Sample Number	0 0 1 11	Client Info	2	VCP436715	VCP418609	
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024	01 Sep 2023	
	Machine Age	hrs	Client Info		3506	3029	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	0	Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status		Onorte inito		NORMAL	NORMAL	
·							
/EAR	Iron	ppm	ASTM D5185m	>200	11	16	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	1	
	Nickel	ppm	ASTM D5185m	>5	1	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>30	7	6	
	Lead	ppm	ASTM D5185m	>40	<1	<1	
	Copper	ppm	ASTM D5185m	>20	1	4	
	Tin	ppm	ASTM D5185m	>20	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.3	
	Sulfation	Abs/.1mm	*ASTM D7415		21.7	20.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
_UID CONDITION	Sodium	nnm	ASTM D5185m		_1	2	
LOID CONDITION	Boron	ppm	ASTM D5185m	2.5	<1 22	2 33	
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		0	0	
		ppm					
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		47	52 -1	
	Manganese	ppm	ASTM D5185m		<1 544	<1 583	
	Magnesium Calcium	ppm	ASTM D5185m		1607	1818	
		ppm	ASTM D5185m			938	
	Phosphorus	ppm			908		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1174	1176 3521	
	Oxidation	ppm Abe/1mm	*ASTM D5185m		2994		
		Abs/.1mm			19.7	18.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	10	10.4	10.1	







Laboratory Sample No. Lab Number **Unique Number**

: VCP436715 : 06059071 : 10830453

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

Diagnostician : Wes Davis 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.

ALTA EQUIPMENT COMPANY

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

: 12 Jan 2024

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