

## **VOLVO L90H 627063**

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
HECOMINIENDATION	Sample Number	OOW	Client Info	LIIIIUAUII	VCP432424		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		17 Jan 2024		
	Machine Age	hrs	Client Info		94		
	Oil Age	hrs	Client Info		94		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client inio		NORMAL		
					NORWAL		
/EAR	Iron	ppm	ASTM D5185m	>100	17		
	Chromium	ppm	ASTM D5185m		5		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	710	<1		
	Silver		ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		48		
	Lead	ppm	ASTM D5185m		1		
		ppm	ASTM D5185m		14		
	Copper	ppm					
	Tin	ppm	ASTM D5185m	>10	2		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>20	20		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	23		
	Fuel	%	ASTM D3524	>6.0	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	4.9		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris		*Visual	NONE	NONE		
		scalar	*Visual				
	Sand/Dirt	scalar		NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		8		
	Boron	ppm	ASTM D5185m	2.5	72		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		39		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		598		
	Calcium	ppm	ASTM D5185m		1553		
	Phosphorus	ppm	ASTM D5185m		1050		
	Zinc		ASTM D5185m		1174		
		ppm					
	Sulfur	ppm Abo/1mm	ASTM D5185m		3644		
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		17.0 8.7		







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** 

: 10836665

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP432424 Recieved : 19 Jan 2024 : 06065283 Diagnosed : 23 Jan 2024

Diagnostician : Angela Borella Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, TBN)

WEST WAREHAM, MA Contact: SAWYER

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)

Report Id: COVWES [WUSCAR] 06065283 (Generated: 01/23/2024 10:14:44) Rev: 1

Contact/Location: ? SAWYER - COVWES

US 02576

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**COVANTA ENERGY** 

141 CRANBERRY HWY

ssawyer@woodcomachinery.com