WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**



Machine Id **VOLVO L90G 3363**

Component

Diesel Fngine

Diesel Engine DIESEL ENGINE OIL SAE 40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0003287	ASC0003500	-
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jul 2024	04 Jan 2024	
	Machine Age	hrs	Client Info		15640	15119	
	Oil Age	hrs	Client Info		521	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	. 100	24	30	
	Iron	ppm			34		
The aluminum level is abnormal. All other component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1 0	<1	
		ppm	ASTM D5185m	>10	0	<1	
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m	. 2	0	<1 0	
	Aluminum	ppm	ASTM D5185m		12	10	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	·····						
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	2	
	Fuel		WC Method	>6.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.7	
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	22.2	
	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	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	31	41	
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	250	44	27	
	Barium	ppm	ASTM D5185m	10	0	8	
	Molybdenum	ppm	ASTM D5185m	100	42	44	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		512	518	
	Calcium	ppm	ASTM D5185m		1666	1762	
	Phosphorus	ppm	ASTM D5185m	1150	876	938	
	Zinc	ppm	ASTM D5185m	1350	1169	1151	
	0 10		A OTHE DELOE	4050		0470	

Base Number (BN) mg KOH/g ASTM D2896 8.5

ppm ASTM D5185m 4250

ASTM D445 14.4

Abs/.1mm *ASTM D7414 >25

Sulfur

Oxidation

Visc @ 100°C cSt

3173

20.4

10.0

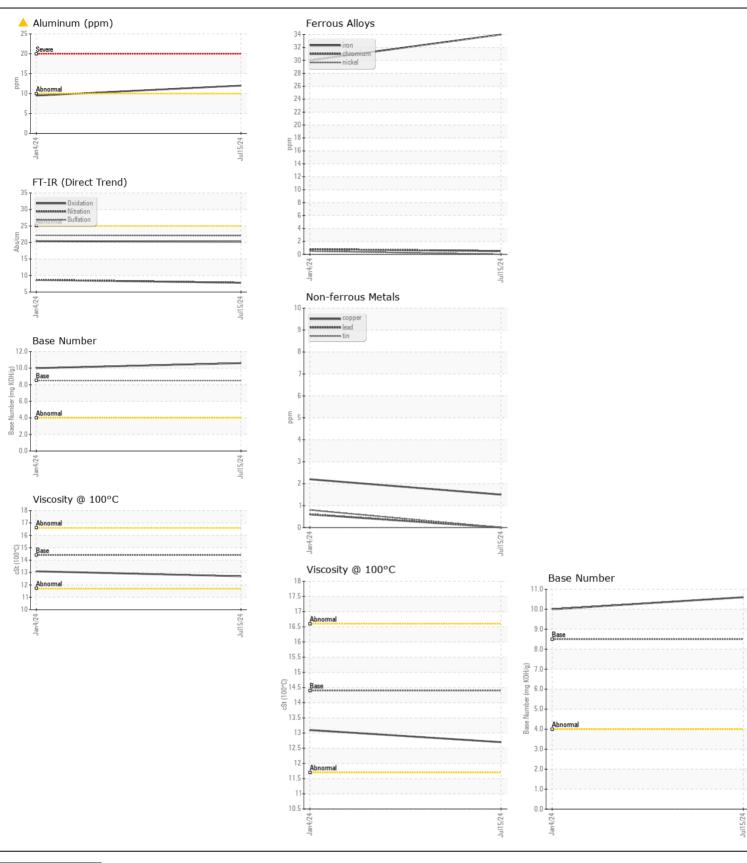
13.1

2719

20.2

10.6

12.7







Certificate L2367

Laboratory Sample No.

Lab Number : 06237577 Unique Number : 11126411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0003287

Received **Tested** Test Package : CONST (Additional Tests: TBN)

: 16 Jul 2024 : 17 Jul 2024 Diagnosed

: 18 Jul 2024 - Sean Felton

PARTON LUMBER CO 251 PARTON RD RUTHERFORDTON, NC US 28139

Contact: SERVICE MANAGER

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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