WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

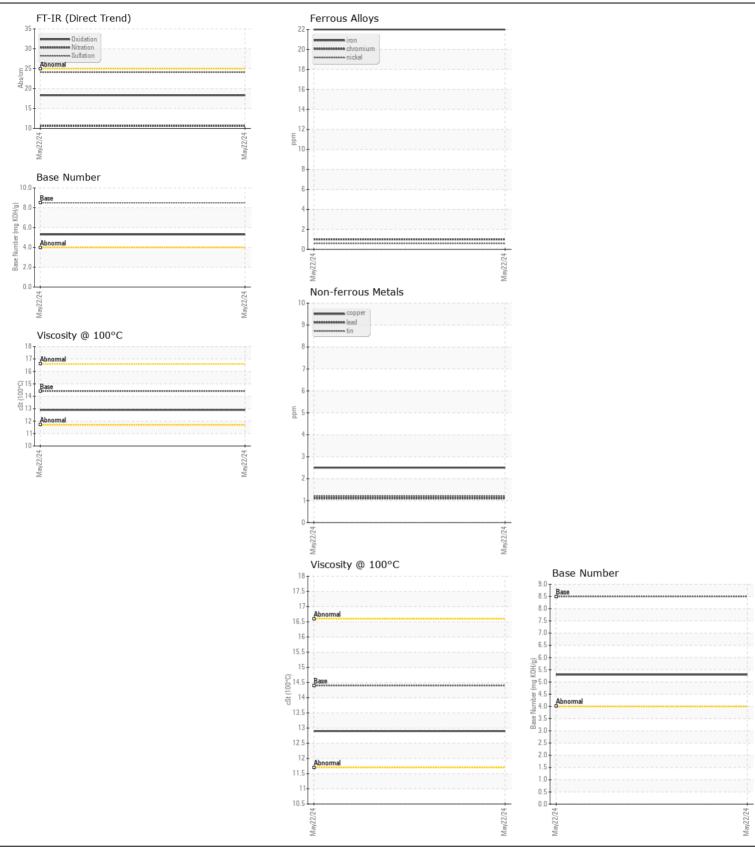


VOLVO L70H 275 (S/N 622509)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217841		
	Sample Date		Client Info		22 May 2024		
	Machine Age	hrs	Client Info		6002		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		22		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>10	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		11		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>10	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	11		
CONTAININATION	Potassium	ppm	ASTM D5185m		8		
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0		
·	Water		WC Method		NEG		
	Glycol		WC Method	>0.1	NEG		
	Soot %	%	*ASTM D7844	. 2	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	10.6		
	Sulfation	Abs/.1mm	*ASTM D7024		24.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2		
The DN requit indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	39		
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		
	Molybdenum	ppm	ASTM D5185m	100	30		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		157		
	Calcium	ppm	ASTM D5185m	3000	2291		
	Phosphorus	ppm	ASTM D5185m		1032		
	Zinc	ppm	ASTM D5185m		1243		
	Sulfur	ppm	ASTM D5185m		3802		
	Oxidation	Abs/.1mm	*ASTM D7414		18.3		
	Base Number (BN)				5.3		
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9		







Laboratory Sample No.

Lab Number : 06215468 Unique Number : 11088332

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0217841

Received **Tested** Diagnosed

: 20 Jun 2024 : 21 Jun 2024

: 21 Jun 2024 - Don Baldridge

TOTAL DEVELOPMENT SOLUTIONS LLC 7805 PROGRESS CT GAINESVILLE, VA

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Test Package : CONST (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)