

Machine Id VOLVO L90G 617019 onen **Diesel Engine**

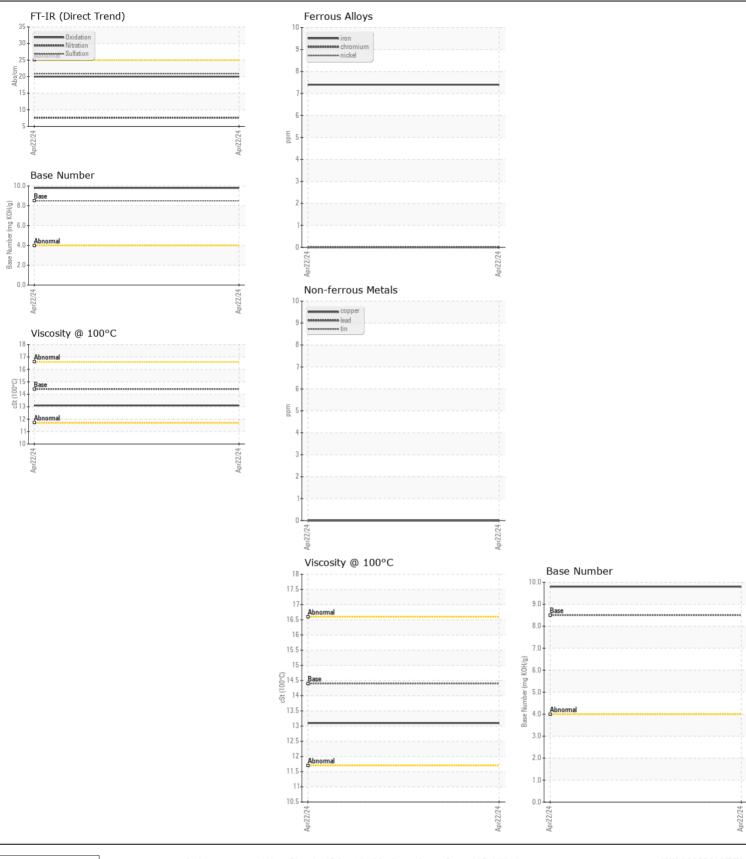
DIESEL ENGINE OIL SAE 40 (--- GAL)

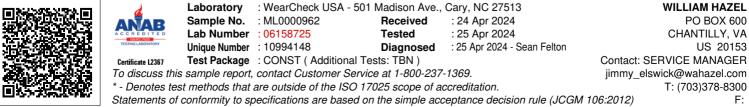
DECOMMENDATION	- .			1.1.1./			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ML0000962		
	Sample Date	bro	Client Info		22 Apr 2024		
	Machine Age	hrs	Client Info		16223		
	Oil Age	hrs	Client Info Client Info		16223 0		
	Filter Age	hrs			-		
	Oil Changed		Client Info		N/A N/A		
	Filter Changed Sample Status		Client Info		N/A NORMAL		
	Sample Status						
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	7		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>15	0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415		20.9		
	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	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	1		
	Boron	ppm	ASTM D5185m		39		
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		0		
	Molybdenum	ppm	ASTM D5185m		46		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m	450	544		
	Calcium	ppm	ASTM D5185m		1956		
	Phosphorus	ppm	ASTM D5185m		871		
	Zinc	ppm	ASTM D5185m		1025		
	Sulfur	ppm	ASTM D5185m		3300		
	Oxidation	Abs/.1mm	*ASTM D7414		20.0		
	Base Number (BN)				9.8		
				4.4.4			

Visc @ 100°C cSt

ASTM D445 14.4

13.1





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