

Area

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

[W2008518] VOLVO L70H 622433 **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (5 GAL)

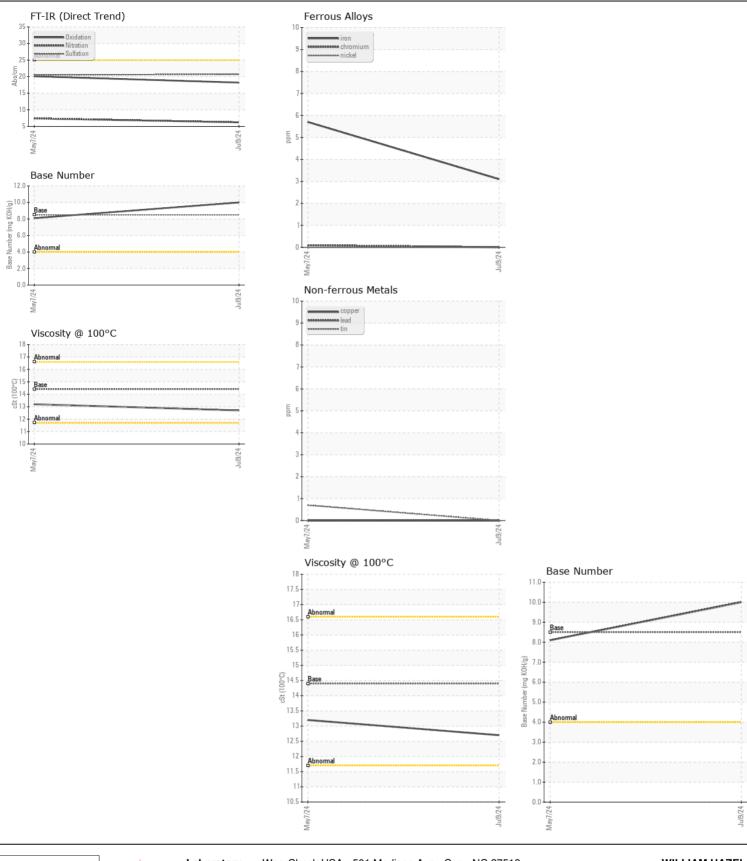
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W02008518)	Sample Number		Client Info		ML0002342	ML0001136	
	Sample Date		Client Info		09 Jul 2024	07 May 2024	
	Machine Age	hrs	Client Info		12089	11739	
	Oil Age	hrs	Client Info		350	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	3	6	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>10	1	3	
	Lead	ppm	ASTM D5185m	>20	0	0	
	Copper	ppm	ASTM D5185m	>15	0	0	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	
	Fuel		WC Method	>6.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.5	
	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	0			040	•		
	Sodium	ppm	ASTM D5185m		3	1	
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		42	59	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m	100	43	48	
	Manganese	ppm	ASTM D5185m	4=0	0	<1	
	Magnesium	ppm	ASTM D5185m		516	546	
	Calcium	ppm	ASTM D5185m		1746	1833	
	Phosphorus	ppm	ASTM D5185m		944	822	
	Zinc	ppm	ASTM D5185m		1109	967	
	Sulfur	ppm	ASTM D5185m		3290	3065	
	Oxidation	Abs/.1mm	*ASTM D7414		18.2	20.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.0	8.1	
	V/ 0 40000	<u> </u>	AOTH DATE			10.0	

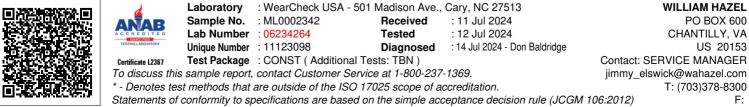
Visc @ 100°C cSt

13.2

12.7

ASTM D445 14.4





Submitted By: DARRELL ANDES Page 2 of 2