

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id VOLVO A45G 13415 (S/N 752170)

Diesel Engine

onen

DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIUADII	ASC0002549	ASC0008633	
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC)	Sample Date		Client Info		03 Apr 2024	22 Feb 2024	
	Machine Age	hrs	Client Info		1337	720	
DIESEL ENGINE OIL SAE 30. Please confirm.	Oil Age	hrs	Client Info		617	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1110	Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	19	31	
	Chromium	ppm	ASTM D5185m	>20	1	2	
	Nickel	ppm	ASTM D5185m	>2	3	3	
	Titanium	ppm	ASTM D5185m		2	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>25	3	4	
	Lead	ppm	ASTM D5185m	>40	2	2	
	Copper	ppm	ASTM D5185m	>330	129	294	
	Tin	ppm	ASTM D5185m	>15	3	6	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Ciliana			05	0	00	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	29	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m ASTM D3524		2	2 0.7	
	Water	%	WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	13	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	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	>0.2	NEG	NEG	
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FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
The PN regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	3	30	
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	0	
	Molybdenum	ppm	ASTM D5185m	100	65	94	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m		730	57	
	Calcium	ppm	ASTM D5185m		1143	2366	
	Phosphorus	ppm	ASTM D5185m		805	1100	
	Zinc	ppm	ASTM D5185m		1072	1278	
	Sulfur	ppm	ASTM D5185m		2399	3859	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.8	

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

ASTM D445 10.9

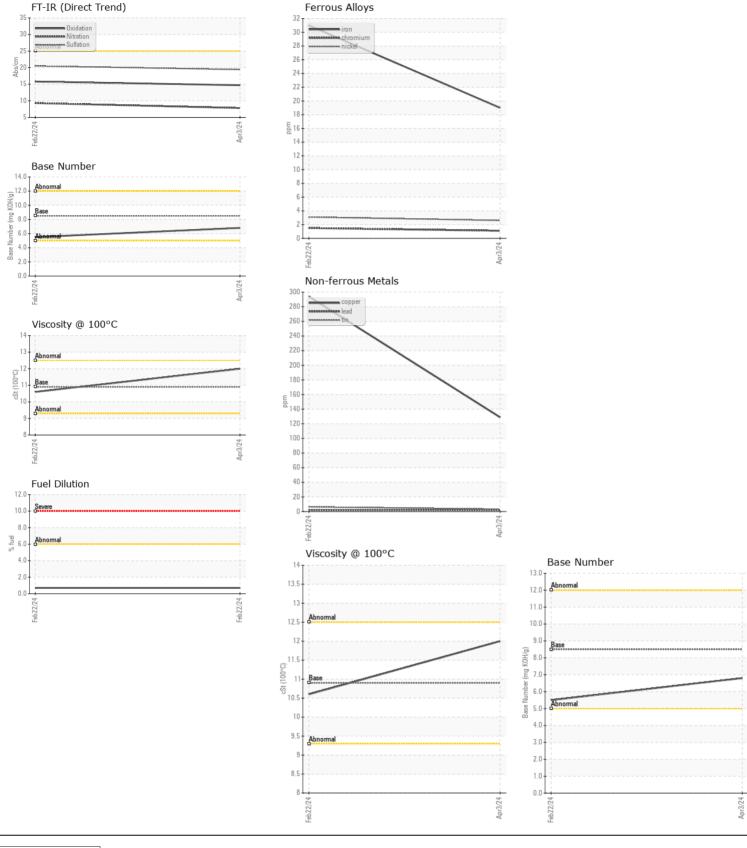
Visc @ 100°C cSt

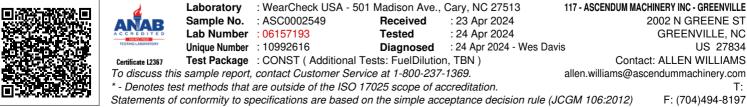
5.5

10.6

6.8

12.0





Submitted By: Service - Brandon Lewis Page 2 of 2