

NORMAL WEAR CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id VOLVO A45G 13414 (S/N 7 Component Diesel Engine Fluid {not provided} (GAL)	52168)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0010230	ASC0008586	,
Resample at the next service interval to monitor.	Sample Date		Client Info		14 May 2024	19 Feb 2024	
	Machine Age	hrs	Client Info		1823	653	
	Oil Age	hrs	Client Info		1170	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		14	32	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	2	
	Nickel	ppm	ASTM D5185m	>2	2	4	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m	>40	1	2	
	Copper	ppm	ASTM D5185m	>330	33	217	
	Tin	ppm	ASTM D5185m	>15	2	5	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon			. 05	E	07	
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m		5 2	27 2	
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D318511			0.6	
	Water	70	WC Method	>6.0	<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	<u>\</u> 2	0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.5	
	Sulfation	Abs/.1mm	*ASTM D7024		19.2	20.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris		*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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	
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		3	26	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		61	95	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		904	20	
	Calcium	ppm	ASTM D5185m		1067	2345	
	Phosphorus	ppm	ASTM D5185m		998	1085	
	Zinc	ppm	ASTM D5185m		1183	1242	

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445

3752

15.7

4.0

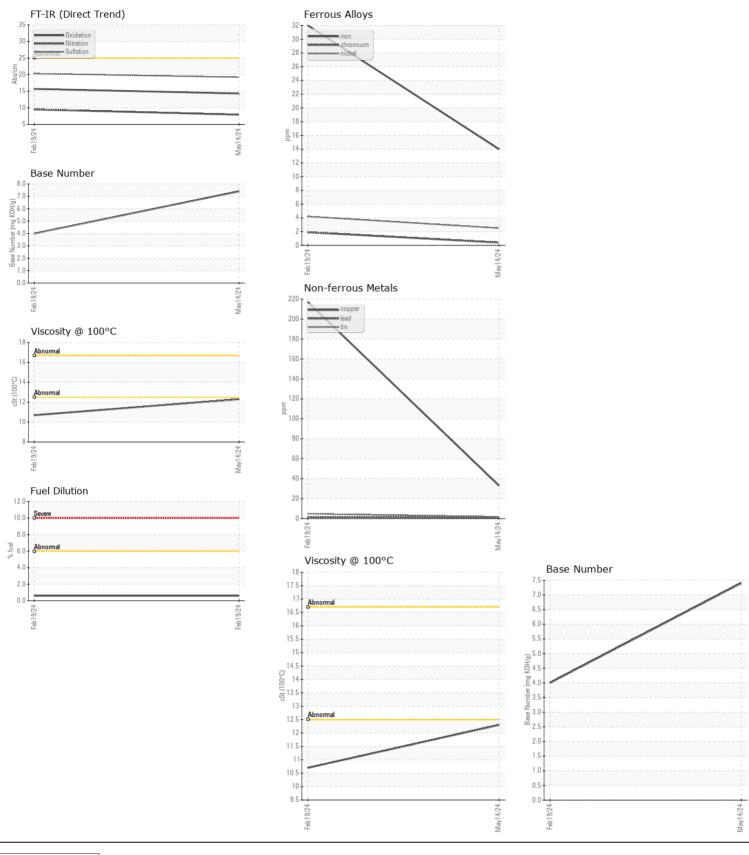
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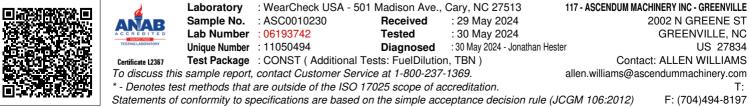
3045

14.3

7.4

12.3





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