

VOLV Component Diesel

Machine Id VOLVO A45G 13389 (S/N 353454)

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0008779	VCP441102	VCP443497
Resample at the next service interval to monitor.	Sample Date		Client Info		08 Apr 2024	27 Feb 2024	14 Dec 2023
	Machine Age	hrs	Client Info		4249	4249	3849
	Oil Age	hrs	Client Info		4249	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	9	13	13
	Chromium	ppm	ASTM D5185m		<1	1	0
	Nickel	ppm	ASTM D5185m		4	· 9	2
	Titanium	ppm	ASTM D5185m	~ _	<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	3	1
	Lead	ppm	ASTM D5185m	>40	ہ <1	1	2
	Copper	ppm	ASTM D5185m		15	23	51
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m	210	، <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai				NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	6	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.7	8.3
	Sulfation	Abs/.1mm		>30	18.8	18.9	19.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>75	0	2	1
	Boron	ppm	ASTM D5185m	250	2	8	3
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	60	64	58
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m	450	864	969	919
	Calcium	ppm	ASTM D5185m		1031	1144	1053
	Phosphorus	ppm	ASTM D5185m		907	1009	931
	Zinc	ppm	ASTM D5185m	1350	1118	1213	1223
	Sulfur	ppm	ASTM D5185m		2947	3099	2635
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	14.9	14.8
	Base Number (BN)				7.9	7.6	6.8
		0.	10714 0 445	10.0		10.0	10 -

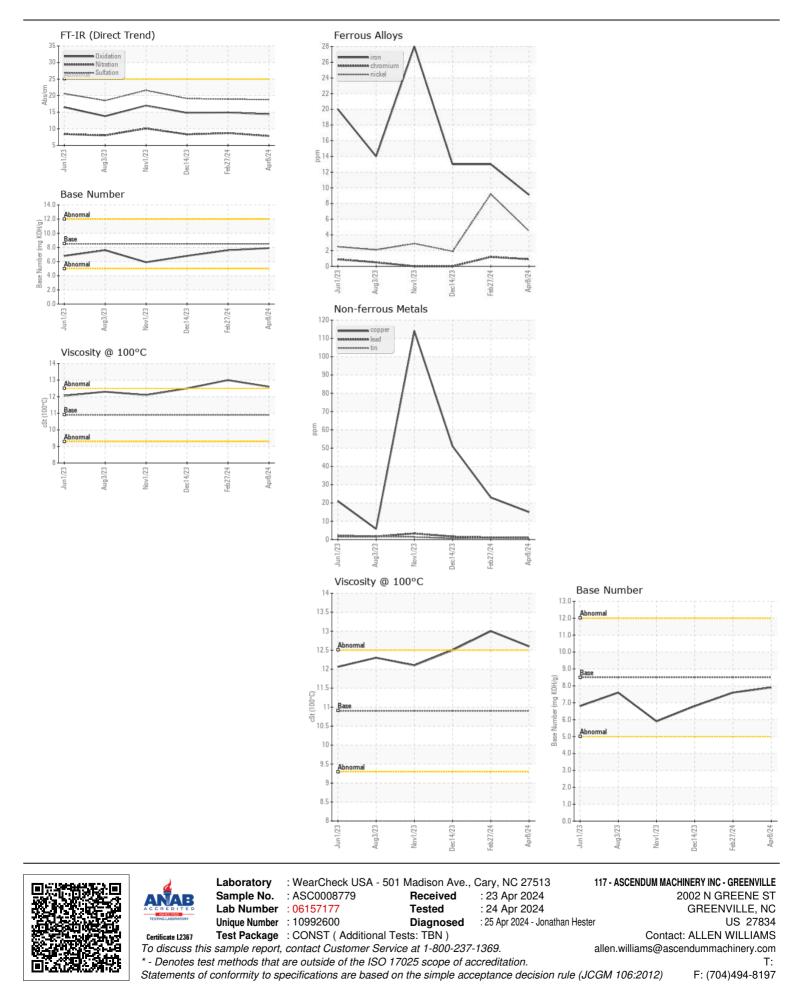
Visc @ 100°C cSt

ASTM D445 10.9

13.0

12.5

12.6



Submitted By: Service - Brandon Lewis Page 2 of 2