

Machine Id VOLVO A35G 342019

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		ML0001815	ML0000810	VCP449043
	Sample Date		Client Info		23 May 2024	21 Mar 2024	05 Jan 2024
	Machine Age	hrs	Client Info		8637	8225	7825
	Oil Age	hrs	Client Info		412	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>200	5	6	6
	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	210	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	۰ <1	0	0
	Aluminum	ppm	ASTM D5185m		2	4	3
	Lead	ppm	ASTM D5185m		_ <1	1	<1
	Copper	ppm	ASTM D5185m		1	2	2
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m	20	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						HONE	HOILE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	5	6
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	<1
	Fuel	%		>3.0	0.3	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.3	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.8	18.7
	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	Sodium	ppm	ASTM D5185m		2	0	2
	Boron		ASTM D5185m		30	51	38
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		54	97	80
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		691	26	35
	Calcium	ppm	ASTM D5185m		1512	2443	2063
	Phosphorus	ppm	ASTM D5185m		859	1100	1007
	Zinc	ppm	ASTM D5185m		1001	1260	1186
	Sulfur	ppm	ASTM D5185m		3215	4343	3703
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	13.8	13.5
	Base Number (BN)		ASTM D2896	-	6.9	5.4	5.4
		- 01	AOTH DAAT			40.0	107

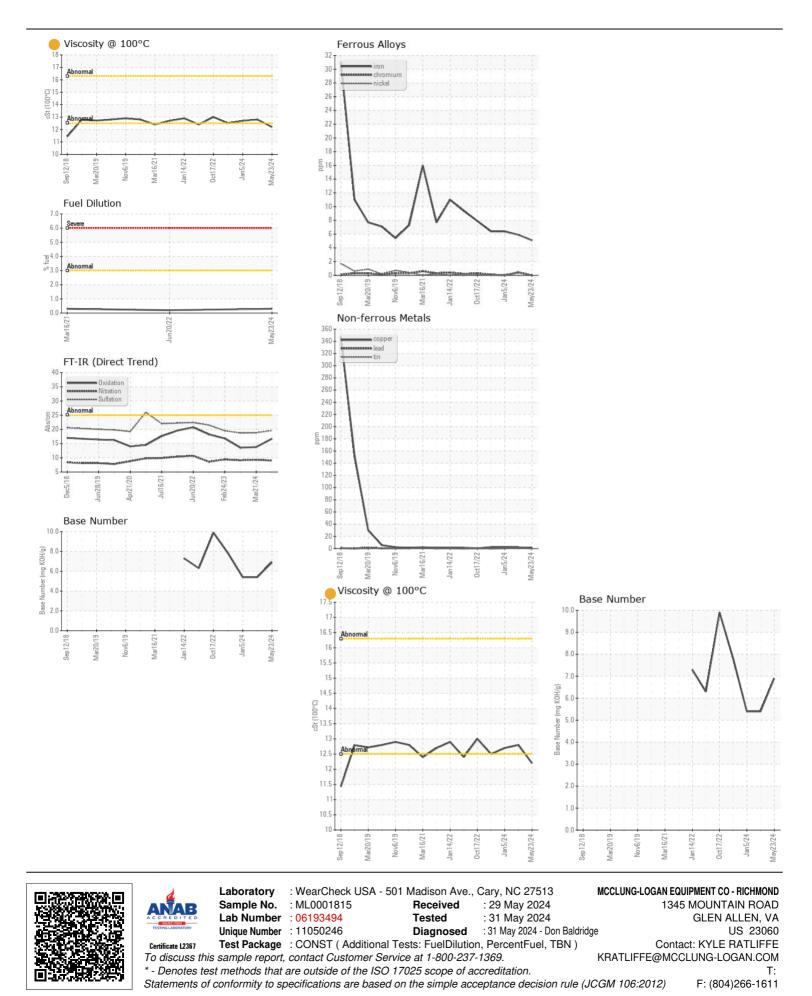
Visc @ 100°C cSt

ASTM D445

12.8

12.7

12.2



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