

[SPM647180-10 RYAN] VOLVO A45G 352110 Component Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

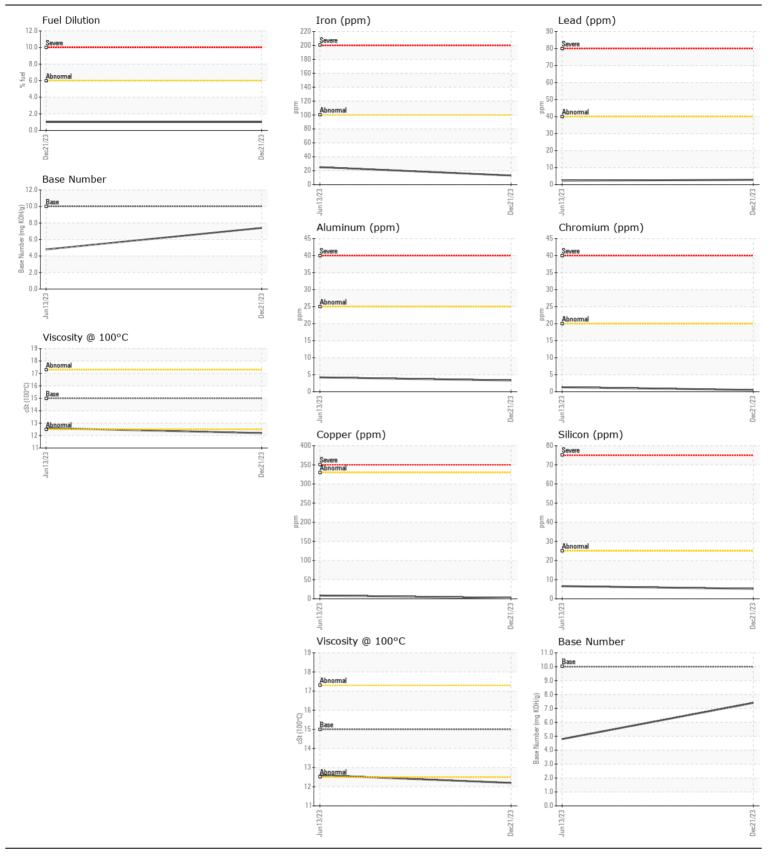
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP438918	VCP412321	
	Sample Date		Client Info		21 Dec 2023	13 Jun 2023	
	Machine Age	hrs	Client Info		4640	3817	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	13	25	
	Chromium	ppm	ASTM D5185m		<1	1	
	Nickel	ppm	ASTM D5185m		2	4	
	Titanium	ppm	ASTM D5185m	~_	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		3	4	
	Lead		ASTM D5185m		3	2	
	Copper	ppm ppm	ASTM D5185m		2	8	
	Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m	210	<u>د</u> <1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Scalai	visuai			NONL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	7	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Fuel	%	ASTM D3524	>6.0	1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	25.9	
	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	
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		3	4	
	Boron	ppm	ASTM D5185m	2.5	19	4	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		67	64	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		556	980	
	Calcium	ppm	ASTM D5185m	2057	1511	1304	
	Phosphorus	ppm	ASTM D5185m		994	1074	
	Zinc	ppm		1223	1145	1418	
	Sulfur	ppm	ASTM D5185m		2917	3646	
	Oxidation	Abs/.1mm	*ASTM D7414		20.5	21.0	
	Base Number (BN)				7.4	4.8	
		0		45.0		10.0	

Visc @ 100°C cSt

12.6

12.2

ASTM D445 15.0



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 31 Jan 2024 5151 DR MARTIN LUTHER KING BLVD : VCP438918 Lab Number FORT MYERS, FL : 06075477 Diagnosed : 02 Feb 2024 Diagnostician : Wes Davis : 10857568 US 33905 **Unique Number** Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: TODD LARK Certificate L2367 tlark@altaequipfl.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: (239)481-3302 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TODD LARK - VOLVO0090