

[8-390659] Machine Id 633406 Component Diesel Engine

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

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

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Metal levels are typical for a new component breaking in.

CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

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GINL			5-3 (6	AL)			
	Test	UOM	Method	Limit/Abn	Current	History1	History2
ıt	Sample Number		Client Info		VCP393164	VCP394802	
	Sample Date		Client Info		16 Jan 2024	12 Sep 2023	
	Machine Age	hrs	Client Info		916	509	
	Oil Age	hrs	Client Info		1000	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ABNORMAL	NORMAL	
	Iron	ppm	ASTM D5185(m)	>200	26	17	
	Chromium	ppm	ASTM D5185(m)	>20	2	2	
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)	>2	1	<1	
	Aluminum	ppm	ASTM D5185(m)	>30	31	29	
	Lead	ppm	ASTM D5185(m)	>40	4	3	
	Copper	ppm	ASTM D5185(m)	>20	21	13	
	Tin	ppm	ASTM D5185(m)	>20	3	2	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	Silicon	ppm	ASTM D5185(m)	>20	11	11	
	Potassium	ppm	ASTM D5185(m)	>20	2	1	
ו	Fuel	%	ASTM D3103(III) ASTM D7593*	>6.0	1.2	<1.0	
	Water	70	WC Method	>0.2	NEG	NEG	
	Glycol		WC Method	20.2	NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0.2	0	
	Nitration	Abs/cm	ASTM D7624*	>20	7.5	6.1	
	Sulfation	Abs/.1mm	ASTM D7624	>30	21.8	21.0	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
				>0.L			
	Sodium	ppm	ASTM D5185(m)		4	4	
	Boron	ppm	ASTM D5185(m)	2.5	30	40	
	Barium	ppm	ASTM D5185(m)	0.0	6	6	
	Molybdenum	ppm	ASTM D5185(m)	0.7	39	39	
	Manganese	ppm	ASTM D5185(m)	0.0	2	2	
	Magnesium	ppm	ASTM D5185(m)	256	644	649	
	Calcium	ppm	ASTM D5185(m)	2057	1456	1408	
	Phosphorus	ppm	ASTM D5185(m)	935	945	1018	
	Zinc	ppm	ASTM D5185(m)	1223	1087	1083	
	Sulfur	ppm	ASTM D5185(m)	4079	3052	2966	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9	17.7	
	Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.5	12.5	
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FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Contact/Location: Tim Visser - HOLCON





