

OIL ANALYSIS REPORT

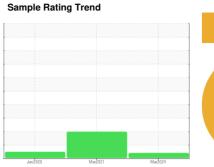




Machine Id **VOLVO A25D 742205**

Component
Diesel Engine

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





Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

E OIL 15W40 VDS-3	(GAL)	Mar2021 Mar2	21 Mar2024			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000454	VCP304320	VCP270238
Sample Date		Client Info		26 Mar 2024	01 Mar 2021	22 Jan 2020
Machine Age	hrs	Client Info		4305	1976	1419
Oil Age	hrs	Client Info		0	500	450
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	21	10	6
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	6	0	1
Lead	ppm	ASTM D5185m	>20	<1	<1	1
Copper	ppm	ASTM D5185m	>15	3	<u> </u>	17
Γin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m			0	<1
√anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	7	65	57
Barium	ppm	ASTM D5185m	0.0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0.7	86	5	27
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	758	658	507
Calcium	ppm	ASTM D5185m	2057	1281	1416	1846
Phosphorus	ppm	ASTM D5185m	935	991	738	786
Zinc	ppm	ASTM D5185m	1223	1152	778	915
Sulfur	ppm	ASTM D5185m	4079	3254	2621	2384
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8	4	8
Sodium	ppm	ASTM D5185m		11	0	2
Potassium	ppm	ASTM D5185m	>20	<1	1	3
Fuel	%	ASTM D3524		<1.0	▲ 2.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9	7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20	20.8
FLUID DEGRAD	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	14.3	17.5
Base Number (BN)	mg KOH/g		10	7.1		
Dago Hambol (DIN)	mg Norry	, 10 TWI D2000	10			



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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0000454 **Lab Number** : 06136765

Unique Number : 10956230

Received : 02 Apr 2024 **Tested** Diagnosed

: 05 Apr 2024

: 05 Apr 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN)

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE 4112 HOLLAND BLVD CHESAPEAKE, VA US 23323 Contact: TOMMY GRIFFIN

To discuss this sample report, contact Customer Service at 1-800-237-1369. tgriffin@mcclung-logan.com st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: VOLVO0264 [WUSCAR] 06136765 (Generated: 04/05/2024 12:30:27) Rev: 1

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