Sample No: VCP445721

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SWO-067561

Boron

ppm

Report Id: WHIGUN [WUSCAR] 06009280 (Generated: 11/20/2023 12:55:52) Rev: 1

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP445721	VCP428983	VCP424718	VCP402458
Sample Date		13 Nov 2023	31 Aug 2023	02 May 2023	06 Mar 2023
Machine Hours		6283	5911	5181	4738
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		SEVERE	MARGINAL	NORMAL	NORMAL
OIT CONDI.	TION				
Visc @ 100°C	cSt	7.5	12.2	13.7	■13.8
Base Number (BN)	mg KOH/g	■7.2	9.9	■ 8.7	9.4
Oxidation (PA)	%	66	82	86	92
CONTAMIN	AATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■0.2	0.4	0.5	0.5
Nitration (PA)	%	70	83	85	89
Sulfation (PA)	%	52	60	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	25.0	▲ 3.5	<1.0	<1.0
Silicon	ppm	6	7	■8	9
Sodium	ppm	2	3	<u></u> 2	2
Potassium	ppm	■0	2	□ <1	□0
WEAR ME	TALS				
Iron	ppm	1 5	1 0	1 9	□ 18
Copper	ppm	■ <1	3	3 2	37
Lead	ppm	2	■3	2	2
Tin	ppm	□ <1	- <1	- <1	- <1
Aluminum	ppm	2	■3	4	2
Chromium	ppm	<1	<1	□ <1	- <1
Molybdenum	ppm	■32	<u></u> 48	□ 53	4 9
Nickel	ppm	□ <1	0	□0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ <1	1	- <1	< 1
Vanadium	ppm	0	0	0	0
ADDITIVE:	<u> </u>				
Calcium	ppm	1072	□ 1647	■ 1787	□ 1639
Magnesium	ppm	458	706	714	608
Zinc	ppm	■ 846	□ 1317	1225	1134
Phosphorus	ppm	690	996	1004	■876
Barium	ppm	■0	0	0	0
Darium	PP111				

WHITAKER CONTRACTING

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Contact: BROTHER WHITAKER BrotherWhitaker@whitaker-contracting.com T: (256)298-3905

F:

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: WHIGUN
Unique No: 10743042
Signed: Wes Davis
Report Date: 20 Nov 2023



CONSTRUCTION EQUIPMENT





