



CONSTRUCTION EQUIPMENT

WO8009321-2 VOLVO A25G 340058 - DIESEL ENGINE



Sample No: VCP399441
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: WO8009321-2



SAMPLE INFORMATION

Sample Number	VCP399441	VCP249346	VCP206625	VCP176129
Sample Date	02 Aug 2023	18 Jul 2019	08 Nov 2016	10 Mar 2016
Machine Hours	5362	3244	1951	1335
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	12.1	12.62	12.2
Base Number (BN)	mg KOH/g	9.4	---	---	---
Oxidation (PA)	%	54	80	52	60



CONTAMINATION

Soot %	%	0.2	0.3	0.1	0.1
Nitration (PA)	%	46	81	58	67
Sulfation (PA)	%	49	59	50	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	6	7	13
Sodium	ppm	2	2	4	3
Potassium	ppm	<1	6	<1	<1



WEAR METALS

Iron	ppm	6	10	10	14
Copper	ppm	35	3	30	122
Lead	ppm	<1	<1	1	0
Tin	ppm	0	0	3	0
Aluminum	ppm	<1	3	3	2
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	54	59	51	50
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1100	1716	1273	1411
Magnesium	ppm	873	574	721	728
Zinc	ppm	1133	893	943	998
Phosphorus	ppm	942	762	774	798
Barium	ppm	0	0	0	<1
Boron	ppm	2	43	24	31

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0264
Unique No: 10615382
Signed: Sean Felton
Report Date: 23 Aug 2023



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GRAPHS

