



CONSTRUCTION EQUIPMENT

VOLVO A45G 35323 - DIESEL ENGINE



Sample No: VCP455500
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455500	VCP437754	VCP435533	VCP386696
Sample Date	03 May 2024	12 Apr 2024	06 Jan 2024	30 Aug 2023
Machine Hours	2406	2288	1771	1291
Oil Hours	0	0	0	0
Oil Changed	Not Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.3	12.3	12.1
Base Number (BN)	mg KOH/g	9.4	10.2	10.0	9.0
Oxidation (PA)	%	76	77	79	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	56	53	55	63
Sulfation (PA)	%	59	60	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.2
Silicon	ppm	4	6	6	11
Sodium	ppm	2	2	2	3
Potassium	ppm	1	2	0	<1



WEAR METALS

Iron	ppm	3	9	8	12
Copper	ppm	<1	7	11	52
Lead	ppm	0	6	<1	0
Tin	ppm	<1	1	1	2
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	39	49	51	53
Nickel	ppm	<1	1	1	2
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1579	1662	1635	1812
Magnesium	ppm	490	489	484	508
Zinc	ppm	1059	1112	1100	1186
Phosphorus	ppm	932	981	929	967
Barium	ppm	0	0	0	0
Boron	ppm	66	55	49	42

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 suitable for further service.

Depot: VOLVO0090
Unique No: 11015848
Signed: Wes Davis
Report Date: 07 May 2024



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GRAPHS

