



CONSTRUCTION EQUIPMENT

VOLVO A45G 342321 - DIESEL ENGINE



Sample No: VCP413255
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP413255	VCP403659	VCP388323	VCP363648
Sample Date	11 Jul 2023	22 Mar 2023	23 Nov 2022	16 Aug 2022
Machine Hours	8493	8012	7534	6948
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	12.9	12.9
Base Number (BN)	mg KOH/g	10.1	10.0	11.4	11.2
Oxidation (PA)	%	80	79	88	87



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	60	60	68	64
Sulfation (PA)	%	60	60	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	2	3	5	3
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	7	7	6	6
Copper	ppm	0	1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	44	40	40
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	3
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1849	1671	1664	1628
Magnesium	ppm	574	497	508	488
Zinc	ppm	1256	1074	1081	1015
Phosphorus	ppm	1043	940	881	883
Barium	ppm	0	2	0	0
Boron	ppm	67	69	46	46

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: SAIBIR
Unique No: 10574166
Signed: Sean Felton
Report Date: 28 Jul 2023



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GRAPHS

