



CONSTRUCTION EQUIPMENT

565152 MOSAIC VOLVO A40G 342363 - DIESEL ENGINE



Sample No: VCP407851
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 565152 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP407851	VCP409306	VCP373189	VCP330232
Sample Date	05 Jun 2023	15 Feb 2023	22 Jun 2022	26 Feb 2022
Machine Hours	7605	6986	5980	5477
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.1	12.4	12.5
Base Number (BN)	mg KOH/g	9.5	9.3	11.0	10.5
Oxidation (PA)	%	80	80	88	87



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	68	64	73	71
Sulfation (PA)	%	60	60	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	6
Sodium	ppm	4	6	6	7
Potassium	ppm	2	2	2	0



WEAR METALS

Iron	ppm	4	7	6	7
Copper	ppm	1	2	2	2
Lead	ppm	<1	0	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	3	3
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	44	45	42	38
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1581	1632	1778	1769
Magnesium	ppm	455	480	499	518
Zinc	ppm	1001	1107	1161	1044
Phosphorus	ppm	820	928	980	961
Barium	ppm	0	0	0	0
Boron	ppm	34	36	42	33

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: VOLVO0093
Unique No: 10550576
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

