



CONSTRUCTION EQUIPMENT

W07012959 VOLVO A45G 342403 - DIESEL ENGINE



Sample No: VCP418133
Oil Type: MOBIL 15W40
Job No: W07012959



SAMPLE INFORMATION

Sample Number	VCP418133	VCP332250	VCP389101	VCP351096
Sample Date	11 Jul 2023	27 Mar 2023	27 Oct 2022	10 May 2022
Machine Hours	6966	0	5504	4777
Oil Hours	500	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
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GLEN ALLEN, VA
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.9	12.9
Base Number (BN)	mg KOH/g	6.4	7.6	6.8	7.3
Oxidation (PA)	%	67	78	87	84



CONTAMINATION

Soot %	%	0.3	0.3	0.5	0.3
Nitration (PA)	%	88	98	100	90
Sulfation (PA)	%	61	59	67	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	4	3
Sodium	ppm	4	7	4	3
Potassium	ppm	0	1	2	<1



WEAR METALS

Iron	ppm	11	13	13	10
Copper	ppm	1	2	2	2
Lead	ppm	1	<1	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	3	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	41	84	48	52
Nickel	ppm	<1	1	1	1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	2217	2010	1379	1329
Magnesium	ppm	218	1192	612	689
Zinc	ppm	1237	1525	959	927
Phosphorus	ppm	1019	1181	733	772
Barium	ppm	0	0	2	0
Boron	ppm	44	44	38	76

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: VOLVO8882
Unique No: 10563374
Signed: Jonathan Hester
Report Date: 20 Jul 2023



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GRAPHS

