



CONSTRUCTION EQUIPMENT

W05003945 VOLVO A45G 342679 - DIESEL ENGINE



Sample No: VCP363670
Oil Type: MOBIL 15W40
Job No: W05003945



SAMPLE INFORMATION

Sample Number	VCP363670	VCP420887	VCP420844	VCP416211
Sample Date	09 Nov 2023	05 Oct 2023	29 Aug 2023	23 Jun 2023
Machine Hours	7942	7666	7349	6984
Oil Hours	250	250	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.1	12.8	13.0
Base Number (BN)	mg KOH/g	9.2	8.4	8.8	9.0
Oxidation (PA)	%	66	62	63	63



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	50	50	53	52
Sulfation (PA)	%	61	61	62	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	0	2	2	2
Potassium	ppm	<1	0	3	1



WEAR METALS

Iron	ppm	2	3	4	2
Copper	ppm	0	<1	3	0
Lead	ppm	2	0	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	4	3	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	101	125	128	130
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1498	1459	1660	1729
Magnesium	ppm	617	627	702	692
Zinc	ppm	948	778	951	991
Phosphorus	ppm	811	670	784	802
Barium	ppm	0	0	0	0
Boron	ppm	291	359	357	388

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: VOLVO0002
Unique No: 10739034
Signed: Wes Davis
Report Date: 14 Nov 2023



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GRAPHS

