



CONSTRUCTION EQUIPMENT

VOLVO A45G 342400 - DIESEL ENGINE



Sample No: VCP406265
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406265	VCP404484	VCP360515	VCP350307
Sample Date	24 Oct 2023	08 Feb 2023	06 Jul 2022	13 Apr 2022
Machine Hours	6081	5425	4553	3963
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.8	12.9	12.9
Base Number (BN)	mg KOH/g	8.2	8.9	10.2	8.5
Oxidation (PA)	%	63	65	66	69

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.6
Nitration (PA)	%	73	68	71	85
Sulfation (PA)	%	56	56	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.2	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	8
Sodium	ppm	0	2	2	2
Potassium	ppm	2	0	2	2



WEAR METALS

Iron	ppm	13	11	13	19
Copper	ppm	6	<1	4	2
Lead	ppm	<1	1	<1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	<1	2	2	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	69	64	57	47
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	0	0	<1	1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1211	1312	1357	1393
Magnesium	ppm	917	914	819	946
Zinc	ppm	1249	1283	1235	1354
Phosphorus	ppm	1014	1031	1025	1093
Barium	ppm	0	0	0	0
Boron	ppm	16	28	19	22

Depot: VOLVO0077
Unique No: 10724886
Signed: Wes Davis
Report Date: 06 Nov 2023



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GRAPHS

