



CONSTRUCTION EQUIPMENT

W05003923 VOLVO A45G 342686 - DIESEL ENGINE



Sample No: VCP416115
Oil Type: MOBIL 15W40
Job No: W05003923



SAMPLE INFORMATION

Sample Number	VCP416115	VCP420842	VCP418030	VCP419601
Sample Date	26 Oct 2023	29 Aug 2023	23 Jun 2023	04 May 2023
Machine Hours	6352	6052	5770	5443
Oil Hours	250	500	250	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	12.8	12.6
Base Number (BN)	mg KOH/g	9.1	8.7	8.7	8.9
Oxidation (PA)	%	64	63	65	65

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	53	53	58	58
Sulfation (PA)	%	62	62	62	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	5
Sodium	ppm	0	2	2	2
Potassium	ppm	0	3	1	<1



WEAR METALS

Iron	ppm	1	3	2	4
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	2	<1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	121	129	125	118
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1634	1652	1671	1489
Magnesium	ppm	671	711	654	625
Zinc	ppm	949	953	951	865
Phosphorus	ppm	791	788	776	711
Barium	ppm	0	0	0	0
Boron	ppm	328	364	351	347

Depot: VOLVO0002
Unique No: 10724927
Signed: Sean Felton
Report Date: 03 Nov 2023



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VOLVO GRAPHS

