



CONSTRUCTION EQUIPMENT

W05003819 VOLVO A45G 342686 - DIESEL ENGINE



Sample No: VCP420842
Oil Type: MOBIL 15W40
Job No: W05003819



SAMPLE INFORMATION

Sample Number	VCP420842	VCP418030	VCP419601	VCP395330
Sample Date	29 Aug 2023	23 Jun 2023	04 May 2023	07 Mar 2023
Machine Hours	6052	5770	5443	5045
Oil Hours	500	250	500	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.6	12.4
Base Number (BN)	mg KOH/g	8.7	8.7	8.9	9.6
Oxidation (PA)	%	63	65	65	63

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 %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	53	58	58	53
Sulfation (PA)	%	62	62	63	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	5	4	5	5
Sodium	ppm	2	2	2	2
Potassium	ppm	3	1	<1	0



WEAR METALS

Iron	ppm	3	2	4	2
Copper	ppm	<1	0	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	<1	1	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	129	125	118	115
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1652	1671	1489	1504
Magnesium	ppm	711	654	625	645
Zinc	ppm	953	951	865	877
Phosphorus	ppm	788	776	711	726
Barium	ppm	0	0	0	0
Boron	ppm	364	351	347	259

Depot: VOLVO0002
Unique No: 10631071
Signed: Sean Felton
Report Date: 05 Sep 2023



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VOLVO GRAPHS

