



CONSTRUCTION EQUIPMENT

W05003852 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP420892
Oil Type: MOBIL 15W40
Job No: W05003852



SAMPLE INFORMATION

Sample Number	VCP420892	VCP420899	VCP418062	VCP420447
Sample Date	12 Sep 2023	03 Aug 2023	23 Jun 2023	18 May 2023
Machine Hours	10241	9977	9810	9564
Oil Hours	500	500	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	13.0	13.1
Base Number (BN)	mg KOH/g	9.2	8.7	9.0	9.3
Oxidation (PA)	%	61	59	62	52



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	45	51	45
Sulfation (PA)	%	59	58	61	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	3	6	8	11
Potassium	ppm	1	3	6	8



WEAR METALS

Iron	ppm	2	2	2	2
Copper	ppm	<1	<1	0	0
Lead	ppm	0	0	0	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	111	125	119	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1551	1632	1726	1702
Magnesium	ppm	624	653	634	482
Zinc	ppm	925	889	987	1247
Phosphorus	ppm	771	748	801	1034
Barium	ppm	0	0	0	0
Boron	ppm	322	364	342	87

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.

Depot: VOLVO0002
Unique No: 10673380
Signed: Don Baldrige
Report Date: 04 Oct 2023



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VOLVO GRAPHS

