



CONSTRUCTION EQUIPMENT

W05003702 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP418062
Oil Type: MOBIL 15W40
Job No: W05003702



SAMPLE INFORMATION

Sample Number	VCP418062	VCP420447	VCP292824	VCP282212
Sample Date	23 Jun 2023	18 May 2023	20 Oct 2020	23 Jul 2020
Machine Hours	9810	9564	4949	4622
Oil Hours	250	250	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	13.1	12.9
Base Number (BN)	mg KOH/g	9.0	9.3	---	---
Oxidation (PA)	%	62	52	61	88



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.4
Nitration (PA)	%	51	45	68	73
Sulfation (PA)	%	61	50	55	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	6	11
Sodium	ppm	8	11	4	5
Potassium	ppm	6	8	0	<1



WEAR METALS

Iron	ppm	2	2	6	16
Copper	ppm	0	0	1	3
Lead	ppm	0	1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	<1	2	0
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	119	57	32	42
Nickel	ppm	0	<1	<1	3
Titanium	ppm	0	0	12	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1726	1702	1559	1609
Magnesium	ppm	634	482	644	454
Zinc	ppm	987	1247	825	881
Phosphorus	ppm	801	1034	748	752
Barium	ppm	0	0	0	0
Boron	ppm	342	87	82	45

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: 10536784
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

