



CONSTRUCTION EQUIPMENT

W05003767 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP420899
Oil Type: MOBIL 15W40
Job No: W05003767



SAMPLE INFORMATION

Sample Number	VCP420899	VCP418062	VCP420447	VCP292824
Sample Date	03 Aug 2023	23 Jun 2023	18 May 2023	20 Oct 2020
Machine Hours	9977	9810	9564	4949
Oil Hours	500	250	250	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	13.0	13.1	13.1
Base Number (BN)	mg KOH/g	8.7	9.0	9.3	---
Oxidation (PA)	%	59	62	52	61

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.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	45	51	45	68
Sulfation (PA)	%	58	61	50	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	6
Sodium	ppm	6	8	11	4
Potassium	ppm	3	6	8	0



WEAR METALS

Iron	ppm	2	2	2	6
Copper	ppm	<1	0	0	1
Lead	ppm	0	0	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	125	119	57	32
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	12
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1632	1726	1702	1559
Magnesium	ppm	653	634	482	644
Zinc	ppm	889	987	1247	825
Phosphorus	ppm	748	801	1034	748
Barium	ppm	0	0	0	0
Boron	ppm	364	342	87	82

Depot: VOLVO0002
Unique No: 10609102
Signed: Sean Felton
Report Date: 22 Aug 2023



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GRAPHS

