



CONSTRUCTION EQUIPMENT

W05003817 VOLVO A40G 341170 - DIESEL ENGINE



Sample No: VCP420836
Oil Type: MOBIL 15W40
Job No: W05003817



SAMPLE INFORMATION

Sample Number	VCP420836	VCP416117	VCP384503	VCP395328
Sample Date	29 Aug 2023	26 Jul 2023	18 May 2023	06 Apr 2023
Machine Hours	10638	10440	9979	9697
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	13.2	13.1	13.1	12.5
Base Number (BN)	mg KOH/g	8.8	8.0	8.3	6.4
Oxidation (PA)	%	69	70	68	66

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	60	72	65	74
Sulfation (PA)	%	65	63	63	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	4
Sodium	ppm	2	2	2	2
Potassium	ppm	3	<1	2	1

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.

WEAR METALS

Iron	ppm	4	5	5	8
Copper	ppm	<1	<1	0	1
Lead	ppm	<1	<1	1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	126	105	106	70
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	1743	1834	1647	1905
Magnesium	ppm	726	567	581	444
Zinc	ppm	1001	1012	1004	1351
Phosphorus	ppm	822	833	838	1144
Barium	ppm	0	0	0	0
Boron	ppm	357	293	248	107

Depot: VOLVO0002
Unique No: 10631068
Signed: Wes Davis
Report Date: 01 Sep 2023



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GRAPHS

