



CONSTRUCTION EQUIPMENT

W05003766 VOLVO A40G 341170 - DIESEL ENGINE



Sample No: VCP416117
Oil Type: MOBIL 15W40
Job No: W05003766



SAMPLE INFORMATION

Sample Number	VCP416117	VCP384503	VCP395328	VCP250639
Sample Date	26 Jul 2023	18 May 2023	06 Apr 2023	06 Sep 2019
Machine Hours	10440	9979	9697	4117
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	13.1	13.1	12.5	12.5
Base Number (BN)	mg KOH/g	8.0	8.3	6.4	---
Oxidation (PA)	%	70	68	66	80

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	0.2	0.9
Nitration (PA)	%	72	65	74	93
Sulfation (PA)	%	63	63	54	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	7
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	2	1	1



WEAR METALS

Iron	ppm	5	5	8	24
Copper	ppm	<1	0	1	10
Lead	ppm	<1	1	0	5
Tin	ppm	0	<1	<1	2
Aluminum	ppm	2	2	2	3
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	105	106	70	63
Nickel	ppm	0	<1	<1	3
Titanium	ppm	0	0	<1	1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1834	1647	1905	1631
Magnesium	ppm	567	581	444	562
Zinc	ppm	1012	1004	1351	1103
Phosphorus	ppm	833	838	1144	905
Barium	ppm	0	0	0	<1
Boron	ppm	293	248	107	13

Depot: VOLVO0002
Unique No: 10577359
Signed: Wes Davis
Report Date: 31 Jul 2023



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GRAPHS

