



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - DIESEL ENGINE



Sample No: VCP442504
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP442504	VCP442859	VCP395092	VCP392521
Sample Date	05 Feb 2024	06 Dec 2023	30 Oct 2023	25 Sep 2023
Machine Hours	11196	10949	10697	10423
Oil Hours	247	252	274	191
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.7	12.7
Base Number (BN)	mg KOH/g	8.4	7.0	7.0	8.1
Oxidation (PA)	%	69	59	61	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	58	68	70	57
Sulfation (PA)	%	55	50	50	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	5
Sodium	ppm	7	18	12	10
Potassium	ppm	7	13	8	5



WEAR METALS

Iron	ppm	5	4	4	<1
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	7	4	3
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	80	132	111	81
Nickel	ppm	1	1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1426	1289	1280	1392
Magnesium	ppm	553	687	679	585
Zinc	ppm	851	902	900	843
Phosphorus	ppm	775	736	732	734
Barium	ppm	12	0	0	0
Boron	ppm	96	140	100	81

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: SCHGRE
Unique No: 10876037
Signed: Sean Felton
Report Date: 15 Feb 2024



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GRAPHS

