



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP441998
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP441998	VCP442548	VCP396997	VCP441993
Sample Date	10 Jun 2024	15 Apr 2024	11 Mar 2024	05 Feb 2024
Machine Hours	11948	11573	11321	11098
Oil Hours	375	252	223	183
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	12.6	12.7
Base Number (BN)	mg KOH/g	9.8	10.2	9.4	9.3
Oxidation (PA)	%	78	77	74	70



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	59	53	54	52
Sulfation (PA)	%	60	59	58	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	6	5
Sodium	ppm	7	13	9	7
Potassium	ppm	3	8	6	8



WEAR METALS

Iron	ppm	6	6	7	5
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	2	0	0
Aluminum	ppm	2	3	2	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	42	44	57	64
Nickel	ppm	0	3	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1717	1764	1746	1497
Magnesium	ppm	505	476	566	521
Zinc	ppm	871	865	957	853
Phosphorus	ppm	773	770	839	795
Barium	ppm	0	0	0	12
Boron	ppm	48	65	69	85

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: 11126347
Signed: Wes Davis
Report Date: 17 Jul 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

