



CONSTRUCTION EQUIPMENT

VOLVO A40G 342608 - DIESEL ENGINE



Sample No: VCP444702
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP444702	VCP433287	VCP416949	VCP331576
Sample Date	29 Apr 2024	02 Apr 2024	13 Feb 2024	11 Dec 2023
Machine Hours	11939	11716	11353	11060
Oil Hours	218	363	293	165
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	12.8	13.0
Base Number (BN)	mg KOH/g	9.5	8.3	7.6	6.7
Oxidation (PA)	%	75	73	68	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	53	69	67	68
Sulfation (PA)	%	58	56	54	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	4
Sodium	ppm	3	6	11	5
Potassium	ppm	1	6	8	5

WEAR METALS

Iron	ppm	2	7	7	3
Copper	ppm	2	1	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	7	6	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	47	73	85	120
Nickel	ppm	0	1	2	2
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1612	1489	1262	1207
Magnesium	ppm	502	538	520	636
Zinc	ppm	864	876	808	831
Phosphorus	ppm	755	773	636	749
Barium	ppm	0	0	34	0
Boron	ppm	66	75	78	121

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: 11018427
Signed: Wes Davis
Report Date: 09 May 2024



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GRAPHS

