



CONSTRUCTION EQUIPMENT

VOLVO A40G 342252 - DIESEL ENGINE



Sample No: VCP443432
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP443432	VCP401121	VCP441994	VCP440659
Sample Date	15 Apr 2024	11 Mar 2024	06 Feb 2024	29 Nov 2023
Machine Hours	12235	11973	11740	11431
Oil Hours	262	233	309	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	12.7	12.4	12.9
Base Number (BN)	mg KOH/g	10.0	8.9	6.6	6.3
Oxidation (PA)	%	77	73	60	57



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	53	55	70	65
Sulfation (PA)	%	59	57	50	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	5	3	10	4
Sodium	ppm	3	2	2	3
Potassium	ppm	<1	0	2	<1



WEAR METALS

Iron	ppm	4	2	5	2
Copper	ppm	<1	0	1	0
Lead	ppm	0	0	0	0
Tin	ppm	2	0	0	0
Aluminum	ppm	2	1	5	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	43	63	189	127
Nickel	ppm	1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1798	1727	1902	1268
Magnesium	ppm	485	582	1009	672
Zinc	ppm	891	960	1325	878
Phosphorus	ppm	779	831	1092	705
Barium	ppm	0	0	13	0
Boron	ppm	61	76	192	147

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: 11008805
Signed: Wes Davis
Report Date: 04 May 2024



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VOLVO GRAPHS

