



CONSTRUCTION EQUIPMENT

VOLVO A40G 352566 - DIESEL ENGINE



Sample No: VCP416812
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416812	VCP331580	VCP339709	VCP312553
Sample Date	13 Feb 2024	11 Dec 2023	06 Nov 2023	04 Oct 2023
Machine Hours	5324	5026	4808	4584
Oil Hours	298	218	224	345
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	12.9	12.6
Base Number (BN)	mg KOH/g	7.8	6.7	6.7	8.3
Oxidation (PA)	%	68	59	61	71



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	66	68	69	61
Sulfation (PA)	%	55	50	51	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	5	4
Sodium	ppm	23	5	2	2
Potassium	ppm	11	4	<1	1



WEAR METALS

Iron	ppm	5	2	2	4
Copper	ppm	1	<1	1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	4	3	3	3
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	80	119	118	69
Nickel	ppm	1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1255	1212	1322	1462
Magnesium	ppm	506	636	699	547
Zinc	ppm	800	827	930	882
Phosphorus	ppm	638	765	721	770
Barium	ppm	34	0	0	0
Boron	ppm	72	119	118	61

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 acceptable for the time in service.

Depot: SCHGRE
Unique No: 10898177
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

