



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - DIESEL ENGINE



Sample No: VCP416950
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416950	VCP312842	VCP329504	VCP339696
Sample Date	13 Feb 2024	11 Dec 2023	06 Nov 2023	03 Oct 2023
Machine Hours	10200	9899	9682	9447
Oil Hours	301	217	235	305
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	12.8	12.7
Base Number (BN)	mg KOH/g	7.9	6.9	7.0	6.3
Oxidation (PA)	%	67	59	63	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	66	68	73	60
Sulfation (PA)	%	55	50	52	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	4
Sodium	ppm	4	3	4	4
Potassium	ppm	2	2	<1	2



WEAR METALS

Iron	ppm	7	4	6	6
Copper	ppm	2	<1	1	2
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	5	3	4	4
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	82	123	119	86
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1242	1226	1327	1443
Magnesium	ppm	507	651	701	587
Zinc	ppm	791	845	934	907
Phosphorus	ppm	625	751	731	761
Barium	ppm	34	0	0	0
Boron	ppm	77	122	113	80

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: 10898176
Signed: Don Baldrige
Report Date: 27 Feb 2024

VOLVO **GRAPHS**

