



CONSTRUCTION EQUIPMENT

VOLVO A40G 341127 - DIESEL ENGINE



Sample No: VCP339694
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP339694	VCP404732	VCP312685	VCP404630
Sample Date	04 Dec 2023	24 Oct 2023	14 Sep 2023	24 Aug 2023
Machine Hours	13974	13756	13477	13340
Oil Hours	218	279	137	104
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.8	12.5
Base Number (BN)	mg KOH/g	7.0	7.6	8.9	10.5
Oxidation (PA)	%	63	67	71	81

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	73	72	60	50
Sulfation (PA)	%	51	53	55	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	0	3	2	2
Potassium	ppm	2	2	1	<1



WEAR METALS

Iron	ppm	3	2	2	3
Copper	ppm	<1	<1	0	0
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	5	3	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	117	113	97	36
Nickel	ppm	2	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1286	1340	1664	1652
Magnesium	ppm	638	664	647	521
Zinc	ppm	854	934	1003	853
Phosphorus	ppm	710	789	851	730
Barium	ppm	11	<1	0	2
Boron	ppm	133	106	104	59

Depot: SCHGRE
Unique No: 10782824
Signed: Don Baldrige
Report Date: 15 Dec 2023



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GRAPHS

