



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - DIESEL ENGINE



Sample No: VCP433226
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433226	VCP416956	VCP339702	VCP362632
Sample Date	27 Mar 2024	06 Feb 2024	04 Dec 2023	24 Oct 2023
Machine Hours	9342	9222	8892	8705
Oil Hours	120	330	187	331
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.5	12.5	12.6
Base Number (BN)	mg KOH/g	7.0	7.5	7.0	8.0
Oxidation (PA)	%	57	63	60	64

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	62	62	66	64
Sulfation (PA)	%	48	51	49	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	5	4
Sodium	ppm	2	3	0	3
Potassium	ppm	2	1	2	2



WEAR METALS

Iron	ppm	2	4	2	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	4	3	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	124	95	125	111
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1242	1168	1257	1343
Magnesium	ppm	631	535	656	659
Zinc	ppm	780	779	861	932
Phosphorus	ppm	659	623	724	762
Barium	ppm	0	34	11	<1
Boron	ppm	150	93	120	96

Depot: SCHGRE
Unique No: 10963040
Signed: Don Baldrige
Report Date: 06 Apr 2024



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GRAPHS

