



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - DIESEL ENGINE



Sample No: VCP433202
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP433202	VCP416753	VCP312520	VCP404731
Sample Date	27 Mar 2024	06 Feb 2024	04 Dec 2023	24 Oct 2023
Machine Hours	17973	17630	17394	17166
Oil Hours	343	236	228	234
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.1	13.1
Base Number (BN)	mg KOH/g	5.9	6.6	6.8	7.8
Oxidation (PA)	%	81	78	73	78

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)	%	101	88	84	77
Sulfation (PA)	%	59	58	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	6	5
Sodium	ppm	2	3	<1	4
Potassium	ppm	2	2	2	2



WEAR METALS

Iron	ppm	6	5	4	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	4	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	128	99	112	100
Nickel	ppm	<1	<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	1364	1246	1324	1426
Magnesium	ppm	637	564	633	641
Zinc	ppm	857	834	873	953
Phosphorus	ppm	671	670	720	776
Barium	ppm	0	34	11	<1
Boron	ppm	122	92	112	80

Depot: SCHGRE
Unique No: 10963053
Signed: Don Baldrige
Report Date: 06 Apr 2024



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VOLVO GRAPHS

