



CONSTRUCTION EQUIPMENT

VOLVO A40G 353407 - DIESEL ENGINE



Sample No: VCP416819
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416819	VCP341890	VCP312514	VCP312575
Sample Date	25 Feb 2024	14 Dec 2023	06 Nov 2023	03 Oct 2023
Machine Hours	1268	997	756	504
Oil Hours	0	241	252	504
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	12.6	11.1
Base Number (BN)	mg KOH/g	7.6	6.6	6.8	5.7
Oxidation (PA)	%	63	59	61	56

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	0.2
Nitration (PA)	%	64	68	70	78
Sulfation (PA)	%	52	50	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	7	5	9	29
Sodium	ppm	3	<1	2	4
Potassium	ppm	2	2	<1	5



WEAR METALS

Iron	ppm	8	9	5	22
Copper	ppm	8	26	113	425
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	3
Aluminum	ppm	3	3	2	4
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	95	119	115	87
Nickel	ppm	2	3	<1	2
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	3
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1189	1232	1421	2122
Magnesium	ppm	531	626	609	48
Zinc	ppm	785	841	957	1189
Phosphorus	ppm	624	762	747	1030
Barium	ppm	34	0	0	0
Boron	ppm	91	119	112	43

Depot: SCHGRE
Unique No: 10898186
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

