



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - DIESEL ENGINE



Sample No: VCP416996
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP416996	VCP312889	VCP405980	VCP406110
Sample Date	07 Feb 2024	04 Dec 2023	24 Oct 2023	24 Aug 2023
Machine Hours	11084	10786	10504	10233
Oil Hours	298	286	271	323
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	12.7	12.4
Base Number (BN)	mg KOH/g	7.5	7.1	8.7	10.2
Oxidation (PA)	%	63	60	69	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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	67	68	63	53
Sulfation (PA)	%	52	50	55	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	5	4
Sodium	ppm	4	0	3	2
Potassium	ppm	2	2	2	<1



WEAR METALS

Iron	ppm	9	5	6	5
Copper	ppm	1	<1	<1	0
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	5	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	97	117	87	37
Nickel	ppm	3	2	4	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1191	1259	1436	1651
Magnesium	ppm	540	629	604	521
Zinc	ppm	790	841	924	863
Phosphorus	ppm	630	691	762	723
Barium	ppm	34	11	<1	2
Boron	ppm	92	126	91	43

Depot: SCHGRE
Unique No: 10898183
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

