



CONSTRUCTION EQUIPMENT

VOLVO A40G 341 127 - DIESEL ENGINE



Sample No: VCP447492
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447492	VCP433211	VCP412430	VCP339694
Sample Date	07 May 2024	27 Mar 2024	06 Feb 2024	04 Dec 2023
Machine Hours	14841	14533	14222	13974
Oil Hours	308	311	248	218
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	12.7	12.8
Base Number (BN)	mg KOH/g	8.5	6.4	7.4	7.0
Oxidation (PA)	%	76	65	67	63

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 %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	68	81	73	73
Sulfation (PA)	%	58	52	53	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	8	6
Sodium	ppm	<1	2	4	0
Potassium	ppm	2	2	3	2



WEAR METALS

Iron	ppm	3	4	5	3
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	4	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	64	124	97	117
Nickel	ppm	1	2	1	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1563	1298	1192	1286
Magnesium	ppm	521	647	540	638
Zinc	ppm	899	830	793	854
Phosphorus	ppm	800	705	636	710
Barium	ppm	0	0	34	11
Boron	ppm	77	141	97	133

Depot: SCHGRE
Unique No: 11032243
Signed: Wes Davis
Report Date: 16 May 2024



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GRAPHS

