



CONSTRUCTION EQUIPMENT

VOLVO A40G 342252 - DIESEL ENGINE



Sample No: VCP440659
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440659	VCP398094	VCP406824	VCP392507
Sample Date	29 Nov 2023	30 Oct 2023	25 Sep 2023	29 Aug 2023
Machine Hours	11431	11266	11035	10867
Oil Hours	165	231	168	208
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.86	12.8	12.5
Viscosity Index (VI)	Scale	---	130	---	---
Base Number (BN)	mg KOH/g	6.3	7.0	8.2	9.5
Oxidation (PA)	%	57	60	65	73

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)	%	65	68	57	47
Sulfation (PA)	%	49	50	52	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	3	3	2	2
Potassium	ppm	<1	1	0	0



WEAR METALS

Iron	ppm	2	4	<1	1
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	3	2	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	127	110	83	37
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1268	1329	1400	1591
Magnesium	ppm	672	669	595	517
Zinc	ppm	878	894	853	878
Phosphorus	ppm	705	736	741	762
Barium	ppm	0	0	0	0
Boron	ppm	147	119	85	50

Depot: SCHGRE
Unique No: 10780135
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

