



CONSTRUCTION EQUIPMENT

VOLVO A40G 342252 - DIESEL ENGINE



Sample No: VCP398094
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP398094	VCP406824	VCP392507	VCP402907
Sample Date	30 Oct 2023	25 Sep 2023	29 Aug 2023	19 Jul 2023
Machine Hours	11266	11035	10867	10659
Oil Hours	231	168	208	234
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.86	12.8	12.5	12.5
Viscosity Index (VI)	Scale	130	---	---	---
Base Number (BN)	mg KOH/g	7.0	8.2	9.5	10.2
Oxidation (PA)	%	60	65	73	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 suitable for further service.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	57	47	50
Sulfation (PA)	%	50	52	57	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	3	2	2	0
Potassium	ppm	1	0	0	2



WEAR METALS

Iron	ppm	4	<1	1	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	110	83	37	43
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1329	1400	1591	1665
Magnesium	ppm	669	595	517	485
Zinc	ppm	894	853	878	899
Phosphorus	ppm	736	741	762	766
Barium	ppm	0	0	0	2
Boron	ppm	119	85	50	60

Depot: SCHGRE
Unique No: 10736968
Signed: Sean Felton
Report Date: 14 Nov 2023



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GRAPHS

