



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - DIESEL ENGINE



Sample No: VCP395092
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP395092	VCP392521	VCP393209	VCP402958
Sample Date	30 Oct 2023	25 Sep 2023	29 Aug 2023	19 Jul 2023
Machine Hours	10697	10423	10232	9967
Oil Hours	274	191	265	258
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	12.4	12.4
Base Number (BN)	mg KOH/g	7.0	8.1	9.7	10.2
Oxidation (PA)	%	61	65	76	80



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	70	57	48	50
Sulfation (PA)	%	50	52	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.5	<1.0
Silicon	ppm	5	5	5	2
Sodium	ppm	12	10	9	5
Potassium	ppm	8	5	4	6

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.



WEAR METALS

Iron	ppm	4	<1	1	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	4	3	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	111	81	36	43
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1280	1392	1559	1683
Magnesium	ppm	679	585	497	478
Zinc	ppm	900	843	853	886
Phosphorus	ppm	732	734	732	766
Barium	ppm	0	0	0	2
Boron	ppm	100	81	44	56

Depot: SCHGRE
Unique No: 10736455
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

