



CONSTRUCTION EQUIPMENT

VOLVO A40G 352199 - DIESEL ENGINE



Sample No: VCP445747
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP445747	VCP392522	VCP396998	VCP406816
Sample Date	29 Nov 2023	30 Oct 2023	25 Sep 2023	29 Aug 2023
Machine Hours	6615	6410	6129	5949
Oil Hours	205	281	180	305
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	12.9	12.4
Base Number (BN)	mg KOH/g	7.0	7.0	8.1	9.4
Oxidation (PA)	%	59	61	65	78

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)	%	68	71	58	53
Sulfation (PA)	%	49	50	52	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	6	4	4	4
Sodium	ppm	3	2	2	2
Potassium	ppm	<1	<1	0	0



WEAR METALS

Iron	ppm	3	1	<1	2
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	3	2	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	134	113	81	39
Nickel	ppm	0	<1	<1	<1
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	1327	1303	1407	1672
Magnesium	ppm	708	681	593	537
Zinc	ppm	928	906	856	915
Phosphorus	ppm	744	728	735	791
Barium	ppm	0	0	0	0
Boron	ppm	146	113	81	46

Depot: SCHGRE
Unique No: 10780138
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

