



CONSTRUCTION EQUIPMENT

VOLVO A40G 352199 - DIESEL ENGINE



Sample No: VCP393245
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP393245	VCP441989	VCP445747	VCP392522
Sample Date	12 Mar 2024	05 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	7031	6882	6615	6410
Oil Hours	149	267	205	281
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.6	13.0	12.9
Base Number (BN)	mg KOH/g	9.4	6.6	7.0	7.0
Oxidation (PA)	%	73	59	59	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	68	68	71
Sulfation (PA)	%	57	49	49	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	6	4
Sodium	ppm	2	0	3	2
Potassium	ppm	<1	2	<1	<1



WEAR METALS

Iron	ppm	3	4	3	1
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	3	2	4	3
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	60	120	134	113
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1537	1256	1327	1303
Magnesium	ppm	533	631	708	681
Zinc	ppm	885	839	928	906
Phosphorus	ppm	765	771	744	728
Barium	ppm	0	12	0	0
Boron	ppm	78	127	146	113

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.

Depot: SCHGRE
Unique No: 10937557
Signed: Wes Davis
Report Date: 21 Mar 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

