



CONSTRUCTION EQUIPMENT

VOLVO A40G 341127 - DIESEL ENGINE



Sample No: VCP404732
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP404732	VCP312685	VCP404630	VCP404836
Sample Date	24 Oct 2023	14 Sep 2023	24 Aug 2023	13 Jul 2023
Machine Hours	13756	13477	13340	13236
Oil Hours	279	137	104	199
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.5	12.7
Base Number (BN)	mg KOH/g	7.6	8.9	10.5	9.8
Oxidation (PA)	%	67	71	81	84

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)	%	72	60	50	58
Sulfation (PA)	%	53	55	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	2
Sodium	ppm	3	2	2	0
Potassium	ppm	2	1	<1	1



WEAR METALS

Iron	ppm	2	2	3	2
Copper	ppm	<1	0	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	5	3	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	113	97	36	43
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1340	1664	1652	1718
Magnesium	ppm	664	647	521	488
Zinc	ppm	934	1003	853	909
Phosphorus	ppm	789	851	730	774
Barium	ppm	<1	0	2	2
Boron	ppm	106	104	59	54

Depot: SCHGRE
Unique No: 10723710
Signed: Don Baldrige
Report Date: 02 Nov 2023

VOLVO **GRAPHS**

