



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 1927 - DIESEL ENGINE



Sample No: VCP312936
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312936	VCP392504	VCP379363	VCP402323
Sample Date	01 Sep 2023	26 Jul 2023	26 Jun 2023	16 May 2023
Machine Hours	25041	24777	24613	24339
Oil Hours	264	164	274	238
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.9	12.6	12.8
Base Number (BN)	mg KOH/g	10.4	9.9	8.6	10.2
Oxidation (PA)	%	79	74	81	79

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 %	%	0.3	0.1	0.2	0.3
Nitration (PA)	%	50	44	50	51
Sulfation (PA)	%	60	57	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	5	6
Sodium	ppm	<1	2	2	2
Potassium	ppm	<1	1	<1	3



WEAR METALS

Iron	ppm	3	2	4	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	42	38	41	41
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1671	1727	1790	1766
Magnesium	ppm	480	520	540	565
Zinc	ppm	924	906	979	976
Phosphorus	ppm	752	750	805	766
Barium	ppm	0	0	0	0
Boron	ppm	51	63	56	56

Depot: SCHGRE
Unique No: 10671659
Signed: Wes Davis
Report Date: 02 Oct 2023

VOLVO **GRAPHS**

