



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 1927 - DIESEL ENGINE



Sample No: VCP312557
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312557	VCP312936	VCP392504	VCP379363
Sample Date	10 Oct 2023	01 Sep 2023	26 Jul 2023	26 Jun 2023
Machine Hours	25332	25041	24777	24613
Oil Hours	291	264	164	274
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.9	12.6
Base Number (BN)	mg KOH/g	6.0	10.4	9.9	8.6
Oxidation (PA)	%	61	79	74	81



CONTAMINATION

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



WEAR METALS

Iron	ppm	2	3	2	4
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	3	2	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	102	42	38	41
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1361	1671	1727	1790
Magnesium	ppm	618	480	520	540
Zinc	ppm	892	924	906	979
Phosphorus	ppm	759	752	750	805
Barium	ppm	0	0	0	0
Boron	ppm	101	51	63	56

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: 10700647
Signed: Don Baldrige
Report Date: 20 Oct 2023

VOLVO **GRAPHS**

