



CONSTRUCTION EQUIPMENT

2593 VOLVO A40F 11927 - DIESEL ENGINE



Sample No: VCP312985
Oil Type: MOBIL 15W40
Job No: 2593



SAMPLE INFORMATION

Sample Number	VCP312985	VCP312557	VCP312936	VCP392504
Sample Date	14 Nov 2023	10 Oct 2023	01 Sep 2023	26 Jul 2023
Machine Hours	25567	25332	25041	24777
Oil Hours	235	291	264	164
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	12.5	12.9
Base Number (BN)	mg KOH/g	7.3	6.0	10.4	9.9
Oxidation (PA)	%	59	61	79	74

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 %	%	0.2	0.2	0.3	0.1
Nitration (PA)	%	68	61	50	44
Sulfation (PA)	%	50	50	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	7
Sodium	ppm	2	2	<1	2
Potassium	ppm	0	1	<1	1



WEAR METALS

Iron	ppm	<1	2	3	2
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	3	2	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	121	102	42	38
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1306	1361	1671	1727
Magnesium	ppm	701	618	480	520
Zinc	ppm	918	892	924	906
Phosphorus	ppm	718	759	752	750
Barium	ppm	0	0	0	0
Boron	ppm	131	101	51	63

Depot: SCHGRE
Unique No: 10755192
Signed: Jonathan Hester
Report Date: 27 Nov 2023

VOLVO **GRAPHS**

