



CONSTRUCTION EQUIPMENT

VOLVO A40F 11927 - DIESEL ENGINE



Sample No: VCP379363
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP379363	VCP402323	VCP359630	VCP373651
Sample Date	26 Jun 2023	16 May 2023	13 Apr 2023	24 Jan 2023
Machine Hours	24613	24339	24101	23982
Oil Hours	274	238	119	343
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.8	█ 12.7	▲ 12.4
Base Number (BN)	mg KOH/g	█ 8.6	█ 10.2	█ 10.2	█ 10.8
Oxidation (PA)	%	81	79	78	78

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 %	%	█ 0.2	█ 0.3	█ 0.2	█ 0.3
Nitration (PA)	%	50	51	46	57
Sulfation (PA)	%	60	61	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	█ 0.6
Silicon	ppm	█ 5	█ 6	█ 6	█ 5
Sodium	ppm	█ 2	█ 2	█ 1	█ 3
Potassium	ppm	█ <1	█ 3	█ <1	█ 2



WEAR METALS

Iron	ppm	█ 4	█ 4	█ 4	█ 4
Copper	ppm	█ <1	█ <1	█ <1	█ <1
Lead	ppm	█ 0	█ 2	█ 0	█ <1
Tin	ppm	█ 0	█ <1	█ 0	█ <1
Aluminum	ppm	█ 1	█ 2	█ 0	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 41	█ 41	█ 40	█ 40
Nickel	ppm	█ 0	█ <1	█ 0	█ <1
Titanium	ppm	0	<1	0	0
Silver	ppm	█ 0	█ 0	█ 0	█ <1
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	█ 1790	█ 1766	█ 1726	█ 1674
Magnesium	ppm	█ 540	█ 565	█ 507	█ 478
Zinc	ppm	█ 979	█ 976	█ 932	█ 890
Phosphorus	ppm	█ 805	█ 766	█ 775	█ 741
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 56	█ 56	█ 63	█ 56

Depot: SCHGRE
Unique No: 10545748
Signed: Wes Davis
Report Date: 05 Jul 2023

VOLVO **GRAPHS**

