



CONSTRUCTION EQUIPMENT

443 VOLVO EC950F 410052 - DIESEL ENGINE



Sample No: VCP414444
Oil Type: MOBIL 15W40
Job No: 443



SAMPLE INFORMATION

Sample Number	VCP414444	VCP288844	VCP351789	VCP289879
Sample Date	20 Oct 2023	20 Jul 2023	23 May 2023	14 Mar 2023
Machine Hours	4151	3497	2998	2690
Oil Hours	0	0	0	501
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
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 T: X
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OIL CONDITION

Visc @ 100°C	cSt	14.3	14.2	13.4	13.8
Base Number (BN)	mg KOH/g	7.7	8.4	9.3	8.3
Oxidation (PA)	%	90	92	92	92



CONTAMINATION

Soot %	%	1.8	1.6	0.9	1.1
Nitration (PA)	%	86	90	77	83
Sulfation (PA)	%	72	73	72	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	6
Sodium	ppm	3	0	3	3
Potassium	ppm	2	1	1	<1



WEAR METALS

Iron	ppm	16	16	10	14
Copper	ppm	4	4	8	36
Lead	ppm	1	2	2	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	4	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	45	44	45
Nickel	ppm	<1	1	1	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1786	1796	1768	1785
Magnesium	ppm	524	477	533	516
Zinc	ppm	1248	1175	1194	1203
Phosphorus	ppm	976	943	961	945
Barium	ppm	0	<1	0	0
Boron	ppm	16	20	25	29

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: VOLVO4488
Unique No: 10722520
Signed: Wes Davis
Report Date: 01 Nov 2023



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VOLVO GRAPHS

