



CONSTRUCTION EQUIPMENT

10627 FREEDOM CONSTR VOLVO EC160E 314382 - DIESEL ENGINE



Sample No: VCP416345
Oil Type: MOBIL 15W40
Job No: 10627 FREEDOM CONSTR



HOFFMAN EQUIPMENT - LIONVILLE
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SAMPLE INFORMATION

Sample Number	VCP416345	VCP410763	VCP400495	VCP386458
Sample Date	07 Jul 2023	27 Mar 2023	26 Jan 2023	14 Nov 2022
Machine Hours	2662	2125	1683	1146
Oil Hours	0	500	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	12.3	13.2	▲ 12.2	12.7
Base Number (BN)	mg KOH/g	5.7	7.8	9.7	8.0
Oxidation (PA)	%	47	51	79	66

CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	65	64	63	71
Sulfation (PA)	%	51	50	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.9	<1.0	1.2	<1.0
Silicon	ppm	11	7	5	7
Sodium	ppm	2	1	3	<1
Potassium	ppm	2	2	10	3

WEAR METALS

Iron	ppm	12	8	6	7
Copper	ppm	2	<1	<1	2
Lead	ppm	<1	0	2	0
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	15	28	25	22
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	2124	1897	1110	1940
Magnesium	ppm	170	380	345	168
Zinc	ppm	1121	1148	820	1101
Phosphorus	ppm	902	980	621	941
Barium	ppm	0	2	0	0
Boron	ppm	4	6	21	58

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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: VOLVO8879
Unique No: 10559744
Signed: Wes Davis
Report Date: 17 Jul 2023



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GRAPHS

