



CONSTRUCTION EQUIPMENT

A11503 VOLVO L60H 622780 - DIESEL ENGINE



Sample No: VCP431248
Oil Type: MOBIL 15W40
Job No: A11503



SAMPLE INFORMATION

Sample Number	VCP431248	VCP421709	VCP398883	VCP399148
Sample Date	13 Nov 2023	09 Aug 2023	05 May 2023	23 Feb 2023
Machine Hours	5415	4560	3870	3100
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

COVANTA METAL MARKETING LLC
 500 MIDDLE DR
 FAIRLESS HILLS, PA
 US 19030
 Contact: J.P.



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	14.0	13.3
Base Number (BN)	mg KOH/g	6.5	6.2	6.7	7.4
Oxidation (PA)	%	51	43	48	50

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.5	0.4	0.5
Nitration (PA)	%	64	63	64	65
Sulfation (PA)	%	53	52	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	8	7
Sodium	ppm	2	0	<1	0
Potassium	ppm	<1	2	1	2

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.



WEAR METALS

Iron	ppm	25	33	64	113
Copper	ppm	2	2	1	1
Lead	ppm	1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	8	6	4
Chromium	ppm	1	1	1	2
Molybdenum	ppm	30	13	17	32
Nickel	ppm	0	2	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	2	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1848	2205	2004	1950
Magnesium	ppm	426	117	236	428
Zinc	ppm	1202	1087	1148	1163
Phosphorus	ppm	940	890	898	998
Barium	ppm	0	0	0	0
Boron	ppm	5	3	4	5

Depot: COVFAI
Unique No: 10764801
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

