



CONSTRUCTION EQUIPMENT

A11314 VOLVO L220H 3380 - DIESEL ENGINE



Sample No: VCP431259
Oil Type: MOBIL 15W40
Job No: A11314



SAMPLE INFORMATION

Sample Number	VCP431259	VCP421952	VCP406475	VCP354868
Sample Date	17 Oct 2023	21 Jun 2023	08 May 2023	15 Sep 2022
Machine Hours	4025	3180	2470	1162
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

COVANTA INC
 1911 RIVER RD
 BAINBRIDGE, PA
 US 17502
 Contact: RON HENDERSHOT
 rhendershot@covantaenergy.com
 T: (717)426-4938
 F: (717)426-1970



OIL CONDITION

Visc @ 100°C	cSt	13.5	13.3	14.0	▲ 11.2
Base Number (BN)	mg KOH/g	9.4	7.2	6.1	6.6
Oxidation (PA)	%	61	43	96	76



CONTAMINATION

Soot %	%	0.1	0.1	0.3	0.2
Nitration (PA)	%	54	58	86	82
Sulfation (PA)	%	53	47	67	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.7
Silicon	ppm	11	9	▲ 38	▲ 43
Sodium	ppm	3	2	2	5
Potassium	ppm	0	2	0	5



WEAR METALS

Iron	ppm	<1	3	15	14
Copper	ppm	<1	6	▲ 50	▲ 285
Lead	ppm	0	0	1	2
Tin	ppm	0	0	2	2
Aluminum	ppm	<1	<1	4	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	42	15	47	85
Nickel	ppm	0	0	3	2
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	1	3
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1513	2211	1778	2199
Magnesium	ppm	519	146	452	97
Zinc	ppm	1209	1139	1084	1260
Phosphorus	ppm	921	935	808	1017
Barium	ppm	0	0	0	0
Boron	ppm	37	6	18	35

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: COVBAI
Unique No: 10711596
Signed: Wes Davis
Report Date: 26 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

