



CONSTRUCTION EQUIPMENT

12001 CLEAN EARTH VOLVO L110H 10463 - DIESEL ENGINE



Sample No: VCP429668
Oil Type: MOBIL 15W40
Job No: 12001 CLEAN EARTH



SAMPLE INFORMATION

Sample Number	VCP429668	VCP422501	VCP254855	VCP235678
Sample Date	01 Feb 2024	15 May 2023	24 Jul 2019	12 Apr 2019
Machine Hours	9489	9140	5825	5020
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	MARGINAL

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.9	12.5	14.0
Base Number (BN)	mg KOH/g	6.6	5.4	---	---
Oxidation (PA)	%	47	74	79	76

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.4	0.3	0.3
Nitration (PA)	%	68	91	73	80
Sulfation (PA)	%	50	65	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	4
Sodium	ppm	0	3	2	3
Potassium	ppm	1	2	<1	0



WEAR METALS

Iron	ppm	8	22	13	19
Copper	ppm	2	2	1	2
Lead	ppm	1	2	<1	<1
Tin	ppm	2	1	<1	1
Aluminum	ppm	3	▲ 11	7	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	19	88	41	13
Nickel	ppm	1	<1	0	<1
Titanium	ppm	<1	<1	11	▲ 58
Silver	ppm	<1	0	<1	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1478	2080	1756	2014
Magnesium	ppm	103	211	496	356
Zinc	ppm	842	1273	939	1053
Phosphorus	ppm	612	995	793	880
Barium	ppm	0	0	0	0
Boron	ppm	7	22	27	29

Depot: VOLVO8879
Unique No: 10869632
Signed: Jonathan Hester
Report Date: 09 Feb 2024



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VOLVO GRAPHS

