



CONSTRUCTION EQUIPMENT

354073-10 WASTE MGMT VOLVO L120H 632377 - DIESEL ENGINE



Sample No: VCP321052
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 354073-10 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP321052	VCP367992	VCP367989	VCP396370
Sample Date	06 Sep 2023	24 Jan 2023	07 Dec 2022	16 Nov 2022
Machine Hours	16550	9215	9000	8850
Oil Hours	0	371	500	850
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.6	13.3	13.1
Base Number (BN)	mg KOH/g	10.6	9.6	5.2	10.7
Oxidation (PA)	%	81	57	80	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

Soot %	%	0.3	0.3	0.1	0.6
Nitration (PA)	%	56	54	107	88
Sulfation (PA)	%	63	52	68	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	6	7
Sodium	ppm	2	<1	0	<1
Potassium	ppm	<1	0	1	<1



WEAR METALS

Iron	ppm	10	10	19	16
Copper	ppm	1	<1	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	8	21	8
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	44	61	62	63
Nickel	ppm	<1	1	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1796	1040	1123	1020
Magnesium	ppm	623	963	937	1049
Zinc	ppm	1297	1245	1241	1264
Phosphorus	ppm	1057	1028	1060	1046
Barium	ppm	0	0	0	0
Boron	ppm	48	2	8	47

Depot: VOLVO5054
Unique No: 10647180
Signed: Wes Davis
Report Date: 16 Sep 2023

VOLVO **GRAPHS**

