



CONSTRUCTION EQUIPMENT

IMPORT AUTO VOLVO L120H 632767 - DIESEL ENGINE



Sample No: VCP432094
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IMPORT AUTO



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP432094	VCP416409	VCP376213	VCP315537
Sample Date	30 Nov 2023	03 Aug 2023	28 Jul 2022	29 Jul 2021
Machine Hours	5022	4536	2531	1479
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.1	13.6
Base Number (BN)	mg KOH/g	10.3	9.3	11.7	---
Oxidation (PA)	%	77	84	87	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.6	0.2	0.4
Nitration (PA)	%	56	78	68	74
Sulfation (PA)	%	59	61	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	6	5	7
Sodium	ppm	0	3	1	1
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	7	22	10	27
Copper	ppm	1	2	2	5
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	1	1	1
Aluminum	ppm	8	19	10	▲ 53
Chromium	ppm	<1	1	<1	3
Molybdenum	ppm	44	50	40	49
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1541	1738	1609	1855
Magnesium	ppm	488	552	485	510
Zinc	ppm	1098	1143	1050	1115
Phosphorus	ppm	887	929	849	991
Barium	ppm	<1	0	0	0
Boron	ppm	43	19	32	42

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: VOLVO0093
Unique No: 10870762
Signed: Wes Davis
Report Date: 08 Feb 2024



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GRAPHS

