



CONSTRUCTION EQUIPMENT

A12387 VOLVO L120H 632707 - DIESEL ENGINE



Sample No: VCP439373
Oil Type: MOBIL 15W40
Job No: A12387



SAMPLE INFORMATION

Sample Number	VCP439373	VCP442536	VCP416457	VCP407467
Sample Date	05 Apr 2024	04 Jan 2024	04 Aug 2023	21 Apr 2023
Machine Hours	4750	4510	4040	3715
Oil Hours	250	250	0	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.8	13.4	13.3
Base Number (BN)	mg KOH/g	7.4	6.3	7.1	9.1
Oxidation (PA)	%	39	57	39	57



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.2	0.2
Nitration (PA)	%	52	59	53	53
Sulfation (PA)	%	44	54	44	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	8	5	5
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	2	2	0



WEAR METALS

Iron	ppm	4	10	9	8
Copper	ppm	<1	3	2	2
Lead	ppm	1	<1	<1	0
Tin	ppm	0	1	<1	0
Aluminum	ppm	2	5	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	13	61	15	31
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	2167	1416	2176	1592
Magnesium	ppm	105	316	173	431
Zinc	ppm	968	1158	1166	1046
Phosphorus	ppm	896	958	907	830
Barium	ppm	0	0	0	0
Boron	ppm	33	209	8	23

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: JAAPHI
Unique No: 10968731
Signed: Wes Davis
Report Date: 11 Apr 2024



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GRAPHS

