



CONSTRUCTION EQUIPMENT

VOLVO L120H 632540 - DIESEL ENGINE



Sample No: VCP451431
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP451431	VCP455175	VCP454251	---
Sample Date	17 Jul 2024	24 Apr 2024	29 Mar 2024	---
Machine Hours	0	16240	15812	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.0	13.1	---
Base Number (BN)	mg KOH/g	9.6	10.2	10.4	---
Oxidation (PA)	%	86	81	83	---

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	---
Soot %	%	0.3	0.2	0.3	---
Nitration (PA)	%	69	56	59	---
Sulfation (PA)	%	65	62	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	4	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	2	0	---



WEAR METALS

Iron	ppm	11	8	9	---
Copper	ppm	<1	<1	1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	5	4	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	39	39	42	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1744	1613	1824	---
Magnesium	ppm	507	491	530	---
Zinc	ppm	1070	1109	1110	---
Phosphorus	ppm	922	953	925	---
Barium	ppm	0	0	0	---
Boron	ppm	25	40	31	---

Depot: VOLVO0090
Unique No: 11130117
Signed: Wes Davis
Report Date: 20 Jul 2024



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VOLVO GRAPHS

