



CONSTRUCTION EQUIPMENT

621676 HERCULES VOLVO L110H 631563 - DIESEL ENGINE



Sample No: VCP431178
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621676 HERCULES



SAMPLE INFORMATION

Sample Number	VCP431178	VCP332232	VCP328502	---
Sample Date	13 Nov 2023	10 Dec 2021	21 Oct 2021	---
Machine Hours	10231	5575	5152	---
Oil Hours	967	500	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.0	13.3	---
Base Number (BN)	mg KOH/g	8.9	10.6	---	---
Oxidation (PA)	%	85	69	86	---

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 %	%	0.9	0.6	1.1	---
Nitration (PA)	%	84	62	68	---
Sulfation (PA)	%	65	59	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	4	6	---
Sodium	ppm	3	2	2	---
Potassium	ppm	1	0	8	---



WEAR METALS

Iron	ppm	17	12	18	---
Copper	ppm	1	1	1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	1	0	---
Aluminum	ppm	7	4	7	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	31	50	39	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1874	1329	1840	---
Magnesium	ppm	405	845	537	---
Zinc	ppm	1152	1198	1056	---
Phosphorus	ppm	954	1041	908	---
Barium	ppm	0	0	0	---
Boron	ppm	21	14	26	---

Depot: VOLVO2990
Unique No: 10764759
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

