



CONSTRUCTION EQUIPMENT

VOLVO L110H 632617 - DIESEL ENGINE



Sample No: VCP433509
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP433509	VCP362896	---	---
Sample Date	31 Oct 2023	06 Sep 2023	---	---
Machine Hours	1024	680	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.4	---	---
Base Number (BN)	mg KOH/g	10.5	9.2	---	---
Oxidation (PA)	%	77	70	---	---

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 %	%	0.2	0.3	---	---
Nitration (PA)	%	49	55	---	---
Sulfation (PA)	%	60	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	12	---	---
Sodium	ppm	4	5	---	---
Potassium	ppm	2	3	---	---



WEAR METALS

Iron	ppm	10	25	---	---
Copper	ppm	4	13	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	1	3	---	---
Aluminum	ppm	7	▲ 31	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	52	45	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1584	1690	---	---
Magnesium	ppm	514	632	---	---
Zinc	ppm	1146	1231	---	---
Phosphorus	ppm	938	1007	---	---
Barium	ppm	2	0	---	---
Boron	ppm	54	65	---	---

Depot: VOLVO0090
Unique No: 10723703
Signed: Wes Davis
Report Date: 02 Nov 2023



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GRAPHS

