



CONSTRUCTION EQUIPMENT

SW1027227 VOLVO L110H 632101 - DIESEL ENGINE



Sample No: VCP441355
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1027227



SAMPLE INFORMATION

Sample Number	VCP441355	VCP425632	---	---
Sample Date	09 Dec 2023	31 May 2023	---	---
Machine Hours	1518	1020	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	---	---
Base Number (BN)	mg KOH/g	10.4	9.7	---	---
Oxidation (PA)	%	74	73	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.6	0.2	---	---
Nitration (PA)	%	58	49	---	---
Sulfation (PA)	%	60	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	<1	2	---	---

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.

WEAR METALS

Iron	ppm	17	11	---	---
Copper	ppm	3	2	---	---
Lead	ppm	0	1	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	10	▲ 15	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	46	50	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1497	1427	---	---
Magnesium	ppm	632	801	---	---
Zinc	ppm	1178	1313	---	---
Phosphorus	ppm	927	1055	---	---
Barium	ppm	0	0	---	---
Boron	ppm	33	29	---	---

Depot: VOLVO6174
Unique No: 10792840
Signed: Wes Davis
Report Date: 19 Dec 2023



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GRAPHS

