



CONSTRUCTION EQUIPMENT

KOPPERS-VANCE VOLVO L110H 631628 - DIESEL ENGINE



Sample No: VCP330896
Oil Type: MOBIL 15W40
Job No: KOPPERS-VANCE



SAMPLE INFORMATION

Sample Number	VCP330896	VCP386856	---	---
Sample Date	17 Nov 2023	24 Jun 2022	---	---
Machine Hours	0	5080	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

COX WOOD OF ALABAMA
 10810 BURT DRIVE
 VANCE, AL
 US 35490
 Contact: TONY SHEHAN
 tony.shehan@coxwood.com
 T: (205)633-8608
 F: (205)633-8604



OIL CONDITION

Visc @ 100°C	cSt	▲ 4.4	■ 14.0	---	---
Base Number (BN)	mg KOH/g	■ 5.7	■ 9.7	---	---
Oxidation (PA)	%	47	83	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.6	■ 0.8	---	---
Nitration (PA)	%	63	77	---	---
Sulfation (PA)	%	46	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.8	<1.0	---	---
Silicon	ppm	▲ 22	■ 8	---	---
Sodium	ppm	■ 3	■ 3	---	---
Potassium	ppm	■ 1	■ 0	---	---



WEAR METALS

Iron	ppm	■ 25	■ 29	---	---
Copper	ppm	■ 2	■ 2	---	---
Lead	ppm	■ 3	■ <1	---	---
Tin	ppm	■ <1	■ 2	---	---
Aluminum	ppm	▲ 12	■ 25	---	---
Chromium	ppm	■ 1	■ 2	---	---
Molybdenum	ppm	■ 16	■ 43	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	<1	■ <1	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	▲ 878	■ 1724	---	---
Magnesium	ppm	■ 182	■ 514	---	---
Zinc	ppm	■ 543	■ 1122	---	---
Phosphorus	ppm	▲ 430	■ 873	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 30	■ 38	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of lighter grade oil entry. We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil.

Depot: COXVAN
Unique No: 10753557
Signed: Doug Bogart
Report Date: 30 Nov 2023



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GRAPHS

