



CONSTRUCTION EQUIPMENT

VOLVO L110H 625924 - DIESEL ENGINE



Sample No: VCP439482
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP439482	VCP416398	VCP419355	---
Sample Date	19 Jan 2024	28 Sep 2023	12 May 2023	---
Machine Hours	0	1903	1345	---
Oil Hours	0	558	1345	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:

OIL CONDITION

Visc @ 100°C	cSt	11.7	12.3	12.5	---
Base Number (BN)	mg KOH/g	6.1	6.2	7.3	---
Oxidation (PA)	%	32	46	73	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.3	0.4	---
Nitration (PA)	%	45	60	81	---
Sulfation (PA)	%	42	51	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	0.2	0.5	<1.0	---
Silicon	ppm	4	8	16	---
Sodium	ppm	<1	3	5	---
Potassium	ppm	2	1	3	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	8	35	90	---
Copper	ppm	<1	4	15	---
Lead	ppm	<1	0	1	---
Tin	ppm	<1	<1	4	---
Aluminum	ppm	2	10	48	---
Chromium	ppm	0	2	9	---
Molybdenum	ppm	21	30	39	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	1	5	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1824	2034	1882	---
Magnesium	ppm	103	191	461	---
Zinc	ppm	888	1091	1151	---
Phosphorus	ppm	772	880	889	---
Barium	ppm	0	0	0	---
Boron	ppm	15	8	23	---

Depot: CITMILCON
Unique No: 10846513
Signed: Wes Davis
Report Date: 26 Jan 2024



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GRAPHS

