



CONSTRUCTION EQUIPMENT

VOLVO L120H 633400 - DIESEL ENGINE



Sample No: VCP424470
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP424470	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	1010	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	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	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	77	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Soot %	%	█ 0.7	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 30	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 1	---	---	---



WEAR METALS

Iron	ppm	█ 48	---	---	---
Copper	ppm	▲ 50	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 65	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 46	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 1	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1430	---	---	---
Magnesium	ppm	█ 492	---	---	---
Zinc	ppm	█ 1047	---	---	---
Phosphorus	ppm	█ 969	---	---	---
Barium	ppm	34	---	---	---
Boron	ppm	█ 28	---	---	---

Depot: CITMILCON
Unique No: 10715335
Signed: Don Baldrige
Report Date: 31 Oct 2023



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GRAPHS

