



CONSTRUCTION EQUIPMENT

REGION OF WATERLOO 373591 VOLVO L150H 6828 - DIESEL ENGINE



Sample No: VCP394766
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 373591



SAMPLE INFORMATION

Sample Number	VCP394766	VCP333747	VCP297848	VCE117684
Sample Date	31 Jul 2023	12 Jul 2022	24 Jun 2021	13 Aug 2020
Machine Hours	8027	5998	3945	2118
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Strongco Equipment
5179 Fountain St N.
Breslau, ON
CA N0B 1M0
Contact: Matt Crisci
mcrisci@strongco.com
T: (519)744-3518
F: (519)744-3284

OIL CONDITION

Visc @ 100°C	cSt	12.8	13.2	12.9	12.7
Oxidation (PA)	%	54	57	54	58

CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	54	56	58	61
Sulfation (PA)	%	51	52	49	54
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	1.6	<1.0	<1.0	<1.0
Silicon	ppm	2	2	2	3
Sodium	ppm	1	2	2	<1
Potassium	ppm	<1	<1	<1	<1

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	3	3	3	5
Copper	ppm	<1	<1	<1	54
Lead	ppm	<1	<1	<1	2
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	56	56	61	53
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	981	1090	1224	1077
Magnesium	ppm	919	920	788	878
Zinc	ppm	1122	1172	1223	1137
Phosphorus	ppm	1020	978	991	963
Barium	ppm	0	0	0	0
Boron	ppm	8	4	12	10

Depot: CASKIT
Unique No: 5618729
Signed: Kevin Marson
Report Date: 04 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

