



CONSTRUCTION EQUIPMENT

REGION OF WATERLOO 407438 VOLVO L150H 6828 - DIESEL ENGINE



Sample No: VCP353425
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 407438



SAMPLE INFORMATION

Sample Number	VCP353425	VCP394766	VCP333747	VCP297848
Sample Date	07 Jun 2024	31 Jul 2023	12 Jul 2022	24 Jun 2021
Machine Hours	9999	8027	5998	3945
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Strongco Equipment

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	13.2	12.9
Oxidation (PA)	%	54	54	57	54



CONTAMINATION

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

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination 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	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	1	1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	57	56	56	61
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1007	981	1090	1224
Magnesium	ppm	912	919	920	788
Zinc	ppm	1151	1122	1172	1223
Phosphorus	ppm	954	1020	978	991
Barium	ppm	0	0	0	0
Boron	ppm	4	8	4	12

Depot: CASKIT
Unique No: 5801177
Signed: Wes Davis
Report Date: 24 Jun 2024



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GRAPHS

