



CONSTRUCTION EQUIPMENT

381340 VOLVO L120H 633291 - DIESEL ENGINE



Sample No: VCP394281
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 381340



SAMPLE INFORMATION

Sample Number	VCP394281	VCP353399	VCP392201	VCP392391
Sample Date	13 Oct 2023	25 Aug 2023	23 Jun 2023	31 Mar 2023
Machine Hours	2543	2143	1654	1092
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
 6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)346-3473
 F: (403)346-3487



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.4	13.3
Oxidation (PA)	%	79	79	82	77



CONTAMINATION

Soot %	%	0.3	0.4	0.4	0.1
Nitration (PA)	%	50	53	54	53
Sulfation (PA)	%	63	66	65	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	6
Sodium	ppm	3	2	3	3
Potassium	ppm	0	<1	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	13	17	18	18
Copper	ppm	2	3	4	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	2	3	6	16
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	42	41	38	40
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1700	1696	1693	1765
Magnesium	ppm	508	517	494	518
Zinc	ppm	1082	1090	1073	1076
Phosphorus	ppm	915	986	949	998
Barium	ppm	<1	0	<1	1
Boron	ppm	44	40	40	51

Depot: VOLVO9652
Unique No: 5658633
Signed: Wes Davis
Report Date: 17 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

