



CONSTRUCTION EQUIPMENT

396704 VOLVO L110H 632619 - DIESEL ENGINE



Sample No: VCP450402
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 396704



SAMPLE INFORMATION

Sample Number	VCP450402	VCP392111	VCP391670	---
Sample Date	08 Mar 2024	30 Nov 2023	20 Sep 2023	---
Machine Hours	1621	1058	643	---
Oil Hours	500	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

STRONGCO EQUIPMENT (CE)
 1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: LLoyd Williams
 lwilliams@strongco.com
 T:
 F: (905)643-6077

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	12.0	---
Oxidation (PA)	%	83	81	73	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	52	50	53	---
Sulfation (PA)	%	63	63	59	---
Glycol	%	0.0	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	5	11	---
Sodium	ppm	2	3	4	---
Potassium	ppm	14	0	2	---

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	9	10	19	---
Copper	ppm	5	6	15	---
Lead	ppm	<1	2	4	---
Tin	ppm	<1	1	3	---
Aluminum	ppm	3	5	16	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	41	39	38	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	1	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1719	1593	1485	---
Magnesium	ppm	526	501	589	---
Zinc	ppm	1073	1057	1061	---
Phosphorus	ppm	948	907	908	---
Barium	ppm	<1	2	7	---
Boron	ppm	45	41	40	---

Depot: VOLVO0252
Unique No: 5746524
Signed: Wes Davis
Report Date: 12 Mar 2024



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GRAPHS

