



CONSTRUCTION EQUIPMENT

IMPACT AUTO VOLVO L90H 623901 - DIESEL ENGINE



Sample No: VCP394690
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP394690	VCP381025	VCP380544	VCP297988
Sample Date	14 Jul 2023	30 Mar 2023	11 Jan 2023	16 Jul 2021
Machine Hours	12030	11509	11010	8526
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: Sue Hooton
 shooton@strongco.com
 T: (905)331-3835
 F: (905)643-6077



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.3	13.6	13.5
Oxidation (PA)	%	84	86	86	81



CONTAMINATION

Soot %	%	0.9	0.7	0.9	1.2
Nitration (PA)	%	66	68	69	70
Sulfation (PA)	%	67	66	70	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	3	3	2	2
Potassium	ppm	<1	0	<1	<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	14	18	13	22
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	6	9	12
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	39	41	41	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1694	1815	1790	1712
Magnesium	ppm	517	524	515	530
Zinc	ppm	1078	1109	1154	1132
Phosphorus	ppm	990	1018	1066	1000
Barium	ppm	0	0	0	0
Boron	ppm	30	33	33	29

Depot: VOLVO0252
Unique No: 5616447
Signed: Wes Davis
Report Date: 21 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

