



CONSTRUCTION EQUIPMENT

STELLA-JONES 8-387328 VOLVO L90H 625859 - DIESEL ENGINE



Sample No: VCP393124
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8-387328



SAMPLE INFORMATION

Sample Number	VCP393124	VCP429945	VCP394503	VCP394578
Sample Date	13 Dec 2023	13 Oct 2023	16 Aug 2023	30 Jun 2023
Machine Hours	7014	6502	6000	5529
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
 MISSISSAUGA, ON
 CA L4W 4L4

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.6	13.8	13.7
Oxidation (PA)	%	82	85	88	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.4	0.3
Nitration (PA)	%	67	66	69	70
Sulfation (PA)	%	62	64	68	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	5	4
Sodium	ppm	2	3	3	3
Potassium	ppm	3	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	9	8	8	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	4	3	4	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	42	39	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1817	1787	1719	1740
Magnesium	ppm	547	527	512	527
Zinc	ppm	1175	1128	1116	1134
Phosphorus	ppm	974	937	991	1007
Barium	ppm	<1	<1	0	0
Boron	ppm	32	25	23	25

Depot: SHEMIS
Unique No: 5696845
Signed: Wes Davis
Report Date: 18 Dec 2023



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GRAPHS

