



CONSTRUCTION EQUIPMENT

STELLA-JONES 8-385690 VOLVO L90H 625431 - DIESEL ENGINE



Sample No: VCP394612
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8-385690



SAMPLE INFORMATION

Sample Number	VCP394612	VCP429729	VCP380474	VCP392092
Sample Date	20 Nov 2023	13 Oct 2023	16 Aug 2023	16 May 2023
Machine Hours	9610	9498	9068	5470
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	12.9	13.3	13.4	12.9
Oxidation (PA)	%	80	82	88	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.3	0.4	0.2
Nitration (PA)	%	48	62	73	58
Sulfation (PA)	%	63	63	68	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	2	3	3	2
Potassium	ppm	0	10	0	0

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	4	9	10	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	4	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	42	39	39
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1664	1751	1699	1736
Magnesium	ppm	491	519	505	503
Zinc	ppm	1056	1106	1113	1101
Phosphorus	ppm	921	943	979	1009
Barium	ppm	0	<1	0	0
Boron	ppm	49	26	22	32

Depot: SHEMIS
Unique No: 5683462
Signed: Wes Davis
Report Date: 23 Nov 2023



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GRAPHS

