



CONSTRUCTION EQUIPMENT

STELLA-JONES 8-394540 VOLVO L90H 625431 - DIESEL ENGINE



Sample No: VCP449311
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8-394540



SAMPLE INFORMATION

Sample Number	VCP449311	VCP394612	VCP429729	VCP380474
Sample Date	16 Feb 2024	20 Nov 2023	13 Oct 2023	16 Aug 2023
Machine Hours	10040	9610	9498	9068
Oil Hours	0	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4

Contact: Janice Cripps
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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	13.3	13.4
Oxidation (PA)	%	84	80	82	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0.3	0.4
Nitration (PA)	%	62	48	62	73
Sulfation (PA)	%	63	63	63	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	5
Sodium	ppm	3	2	3	3
Potassium	ppm	3	0	10	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	7	4	9	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	5	2	4	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	40	42	39
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1759	1664	1751	1699
Magnesium	ppm	516	491	519	505
Zinc	ppm	1083	1056	1106	1113
Phosphorus	ppm	943	921	943	979
Barium	ppm	0	0	<1	0
Boron	ppm	39	49	26	22

Depot: SHEMIS
Unique No: 5746515
Signed: Wes Davis
Report Date: 12 Mar 2024



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GRAPHS

