



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-387334 VOLVO L90H 624434 - DIESEL ENGINE



Sample No: VCP450322
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 8-387334



SAMPLE INFORMATION

Sample Number	VCP450322	VCP430268	VCP391932	VCP381765
Sample Date	17 Jan 2024	28 Sep 2023	31 May 2023	21 Mar 2023
Machine Hours	10170	9630	8995	8576
Oil Hours	2000	0	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	13.4	13.6	13.3	13.3
Oxidation (PA)	%	82	82	85	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.9	0.5	0.4
Nitration (PA)	%	65	71	63	71
Sulfation (PA)	%	65	65	64	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	<1	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	11	11	7	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	3	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	42	39	42
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1745	1780	1833	1862
Magnesium	ppm	509	525	498	538
Zinc	ppm	1038	1144	1120	1127
Phosphorus	ppm	901	963	1019	1046
Barium	ppm	0	<1	0	0
Boron	ppm	32	21	36	37

Depot: SHEMIS
Unique No: 5711259
Signed: Wes Davis
Report Date: 22 Jan 2024



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GRAPHS

