



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-379795 VOLVO L90H 624434 - DIESEL ENGINE



Sample No: VCP430268
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 8-379795



SAMPLE INFORMATION

Sample Number	VCP430268	VCP391932	VCP381765	VCP352718
Sample Date	28 Sep 2023	31 May 2023	21 Mar 2023	10 Jan 2023
Machine Hours	9630	8995	8576	8143
Oil Hours	0	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	13.6	13.3	13.3	14.1
Oxidation (PA)	%	82	85	87	80



CONTAMINATION

Soot %	%	0.9	0.5	0.4	0.8
Nitration (PA)	%	71	63	71	73
Sulfation (PA)	%	65	64	73	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	3	2	3	3
Potassium	ppm	<1	0	0	<1



WEAR METALS

Iron	ppm	11	7	10	13
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	39	42	47
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1780	1833	1862	1899
Magnesium	ppm	525	498	538	543
Zinc	ppm	1144	1120	1127	1128
Phosphorus	ppm	963	1019	1046	1037
Barium	ppm	<1	0	0	<1
Boron	ppm	21	36	37	29

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.

Depot: SHEMIS
Unique No: 5655713
Signed: Wes Davis
Report Date: 04 Oct 2023



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GRAPHS

