



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-387332 VOLVO L90H 623895 - DIESEL ENGINE



Sample No: VCP450151
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-387332



SAMPLE INFORMATION

Sample Number	VCP450151	VCP391931	VCP352710	VCP352975
Sample Date	17 Jan 2024	31 May 2023	01 Feb 2023	09 Nov 2022
Machine Hours	12280	11050	10520	10091
Oil Hours	2000	1000	0	2000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.5	13.3	13.4
Oxidation (PA)	%	80	84	71	91



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0	0.3
Nitration (PA)	%	52	56	51	75
Sulfation (PA)	%	62	63	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	2	2	3	3
Potassium	ppm	0	0	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	6	7	10	20
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	3	2	4	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	40	41	40
Nickel	ppm	0	0	<1	<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	1698	1825	1777	1720
Magnesium	ppm	492	520	501	512
Zinc	ppm	1046	1091	1139	1119
Phosphorus	ppm	912	1008	1022	997
Barium	ppm	0	0	0	0
Boron	ppm	39	43	42	22

Depot: SHEMIS
Unique No: 5711258
Signed: Wes Davis
Report Date: 22 Jan 2024



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VOLVO GRAPHS

