



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-398002 VOLVO L90H 623897 - DIESEL ENGINE



Sample No: VCP394366
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-398002



SAMPLE INFORMATION

Sample Number	VCP394366	VCP393098	VCP430259	VCP392274
Sample Date	21 Mar 2024	17 Jan 2024	28 Sep 2023	26 Jun 2023
Machine Hours	11468	11111	10515	9990
Oil Hours	500	2000	0	0
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	13.2	13.6	13.5	13.2
Oxidation (PA)	%	84	88	80	84



CONTAMINATION

Water	%	0.038	NEG	NEG	NEG
Soot %	%	0.5	1.1	0.8	0.5
Nitration (PA)	%	66	82	67	64
Sulfation (PA)	%	64	68	64	64
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	6
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	16	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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	12	21	13	9
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	5	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	41	41	40
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1761	1787	1758	1721
Magnesium	ppm	522	522	520	513
Zinc	ppm	1078	1103	1135	1105
Phosphorus	ppm	909	957	951	1001
Barium	ppm	0	0	<1	0
Boron	ppm	36	22	24	33

Depot: SHEMIS
Unique No: 5760978
Signed: Kevin Marson
Report Date: 11 Apr 2024



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GRAPHS

