



CONSTRUCTION EQUIPMENT

REGION OF PEEL 8-404170 VOLVO L60H 622562 - DIESEL ENGINE



Sample No: VCP450372
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: 8-404170



SAMPLE INFORMATION

Sample Number	VCP450372	VCP450374	VCP353260	VCP394976
Sample Date	15 May 2024	09 May 2024	22 Nov 2023	12 Jul 2023
Machine Hours	3521	3467	3010	2518
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	NORMAL	NORMAL



STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4

Contact: Janice Cripps
jcripps@strongco.com
T: (905)565-3876
F: (905)670-2338



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.6	■ 9.1	13.0	13.0
Oxidation (PA)	%	83	76	84	83



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0	■ 0.2	■ 0.2
Nitration (PA)	%	59	58	58	59
Sulfation (PA)	%	63	61	63	63
Glycol	%	■ 0.0	▲ 0.146	NEG	NEG
Fuel	%	<1.0	■ 3.2	<1.0	<1.0
Silicon	ppm	■ 4	23	■ 5	■ 5
Sodium	ppm	■ 2	● 23	■ 4	■ 3
Potassium	ppm	■ 0	▲ 9	■ 0	■ <1



WEAR METALS

Iron	ppm	■ 8	■ 35	■ 9	■ 11
Copper	ppm	■ <1	▲ 20	■ <1	■ <1
Lead	ppm	■ 0	■ 6	■ <1	■ 0
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	■ 5	6	■ 4	■ 4
Chromium	ppm	■ <1	■ 1	■ <1	■ <1
Molybdenum	ppm	■ 39	■ 19	■ 39	■ 40
Nickel	ppm	■ 0	■ 2	■ <1	■ <1
Titanium	ppm	■ 0	■ <1	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	■ 0	0	0	0



ADDITIVES

Calcium	ppm	■ 1721	■ 1369	■ 1707	■ 1683
Magnesium	ppm	■ 508	■ 226	■ 496	■ 514
Zinc	ppm	■ 1066	■ 826	■ 1081	■ 1084
Phosphorus	ppm	■ 932	■ 724	■ 929	■ 974
Barium	ppm	■ 0	■ <1	■ <1	■ 0
Boron	ppm	■ 44	■ 41	■ 36	■ 38

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Test for glycol is negative. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: SHEMIS
Unique No: 5787589
Signed: Kevin Marson
Report Date: 30 May 2024



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GRAPHS

