



CONSTRUCTION EQUIPMENT

REGION OF PEEL 1001-505 VOLVO L70H 624447 - DIESEL ENGINE



Sample No: VCP449350
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: 1001-505



SAMPLE INFORMATION

Sample Number	VCP449350	VCP393898	VCP429983	VCP349590
Sample Date	15 Mar 2024	08 Dec 2023	15 Sep 2023	16 Jun 2023
Machine Hours	5015	4530	4080	3525
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
Contact: Janice Cripps
jcripps@strongco.com
T: (905)565-3876
F: (905)670-2338

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	13.4	12.9
Oxidation (PA)	%	83	83	86	88

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.2
Nitration (PA)	%	58	58	68	67
Sulfation (PA)	%	63	63	64	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	6	6
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	0	<1	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	8	10	12	12
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	3	4	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	42	42	40
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1700	1758	1750	1736
Magnesium	ppm	503	523	519	520
Zinc	ppm	1026	1118	1136	1105
Phosphorus	ppm	868	938	924	983
Barium	ppm	0	<1	<1	0
Boron	ppm	33	33	22	30

Depot: SHEMIS
Unique No: 5749058
Signed: Wes Davis
Report Date: 22 Mar 2024



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GRAPHS

