



CONSTRUCTION EQUIPMENT

8000395882 VOLVO L45HS 4222197 - DIESEL ENGINE



Sample No: VCP394107
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000395882



SAMPLE INFORMATION

Sample Number	VCP394107	VCP353401	VCP392445	VCP392398
Sample Date	05 Mar 2024	17 Aug 2023	17 Jul 2023	25 Apr 2023
Machine Hours	2347	1901	1656	1054
Oil Hours	1000	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
 6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)391-3520
 F: (403)346-3487



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.8	12.7
Oxidation (PA)	%	95	78	85	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0	0.2	0
Nitration (PA)	%	79	48	58	51
Sulfation (PA)	%	65	64	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	6	12	8
Sodium	ppm	3	3	3	2
Potassium	ppm	2	<1	<1	<1

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	32	8	20	13
Copper	ppm	13	2	3	2
Lead	ppm	<1	0	<1	0
Tin	ppm	1	<1	1	<1
Aluminum	ppm	4	1	2	3
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	42	39	41	39
Nickel	ppm	1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1725	1635	1680	1708
Magnesium	ppm	514	500	523	498
Zinc	ppm	1090	1066	1079	1044
Phosphorus	ppm	919	955	967	957
Barium	ppm	0	0	0	0
Boron	ppm	31	45	33	52

Depot: VOLVO9652
Unique No: 5746157
Signed: Kevin Marson
Report Date: 11 Mar 2024



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VOLVO GRAPHS

