



CONSTRUCTION EQUIPMENT

8000404684 VOLVO L45HS 4222197 - DIESEL ENGINE



Sample No: VCP381909
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000404684



SAMPLE INFORMATION

Sample Number	VCP381909	VCP394107	VCP353401	VCP392445
Sample Date	16 May 2024	05 Mar 2024	17 Aug 2023	17 Jul 2023
Machine Hours	0	2347	1901	1656
Oil Hours	500	1000	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	12.5	12.8
Oxidation (PA)	%	84	95	78	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.4	0	0.2
Nitration (PA)	%	59	79	48	58
Sulfation (PA)	%	64	65	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	13	6	12
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	2	<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	13	32	8	20
Copper	ppm	5	13	2	3
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	1	<1	1
Aluminum	ppm	2	4	1	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	41	42	39	41
Nickel	ppm	<1	1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1682	1725	1635	1680
Magnesium	ppm	507	514	500	523
Zinc	ppm	1077	1090	1066	1079
Phosphorus	ppm	897	919	955	967
Barium	ppm	0	0	0	0
Boron	ppm	41	31	45	33

Depot: VOLVO9652
Unique No: 5786019
Signed: Wes Davis
Report Date: 22 May 2024



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GRAPHS

