



CONSTRUCTION EQUIPMENT

12683 CHESTERFIELD VOLVO L90H 625 196 - DIESEL ENGINE



Sample No: VCP423656
Oil Type: SHELL 15W40
Job No: 12683 CHESTERFIELD



SAMPLE INFORMATION

Sample Number	VCP423656	VCP400979	VCP389082	VCP378095
Sample Date	02 Jun 2023	27 Jan 2023	28 Oct 2022	08 Jul 2022
Machine Hours	6175	5556	5113	4567
Oil Hours	600	500	500	590
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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 GLEN ALLEN, VA
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OIL CONDITION

Visc @ 100°C	cSt	14.9	14.8	14.6	13.4
Base Number (BN)	mg KOH/g	6.6	6.4	7.5	9.2
Oxidation (PA)	%	71	49	57	75



CONTAMINATION

Soot %	%	1.2	0.9	1.3	1
Nitration (PA)	%	90	72	83	90
Sulfation (PA)	%	65	55	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	5	5
Sodium	ppm	2	2	2	1
Potassium	ppm	<1	2	1	2



WEAR METALS

Iron	ppm	24	18	19	15
Copper	ppm	1	1	1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	▲ 17	▲ 23	15	14
Chromium	ppm	2	1	1	<1
Molybdenum	ppm	65	7	26	68
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2299	2263	2160	1402
Magnesium	ppm	150	83	158	581
Zinc	ppm	1453	1042	1079	967
Phosphorus	ppm	1120	866	837	792
Barium	ppm	0	0	0	0
Boron	ppm	22	2	9	36

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8882
Unique No: 10499976
Signed: Sean Felton
Report Date: 07 Jun 2023



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VOLVO GRAPHS

