



CONSTRUCTION EQUIPMENT

700822 BARTON VOLVO L150H 6885 - DIESEL ENGINE



Sample No: VCP443783
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700822 BARTON



SAMPLE INFORMATION

Sample Number	VCP443783	VCP454096	VCP403674	VCP386822
Sample Date	17 Apr 2024	04 Jan 2024	10 Jan 2023	04 Aug 2022
Machine Hours	6075	5588	3604	2582
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T:
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.0	12.8
Base Number (BN)	mg KOH/g	7.0	7.1	9.1	9.8
Oxidation (PA)	%	72	75	65	66



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	80	83	63	70
Sulfation (PA)	%	58	58	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	3	2
Sodium	ppm	2	2	2	<1
Potassium	ppm	3	<1	<1	1



WEAR METALS

Iron	ppm	8	7	8	7
Copper	ppm	▲ 175	▲ 201	1	2
Lead	ppm	<1	2	<1	<1
Tin	ppm	1	0	<1	<1
Aluminum	ppm	2	<1	0	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	57	54	55	60
Nickel	ppm	1	<1	2	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1208	1238	1270	1057
Magnesium	ppm	843	798	865	888
Zinc	ppm	1218	1133	1273	1226
Phosphorus	ppm	988	917	1012	1011
Barium	ppm	2	0	0	0
Boron	ppm	9	11	12	3

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 copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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 suitable for further service.

Depot: VOLVO2990
Unique No: 10996689
Signed: Sean Felton
Report Date: 29 Apr 2024



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VOLVO GRAPHS

