



CONSTRUCTION EQUIPMENT

18966 KOPPERS VOLVO L150H 6838 - DIESEL ENGINE



Sample No: VCP408338
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 18966 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP408338	VCP387693	VCP399792	VCP0005101
Sample Date	20 Jun 2023	21 Mar 2023	05 Jan 2023	14 Nov 2022
Machine Hours	6554	6120	5570	5176
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.2	13.2	12.2
Base Number (BN)	mg KOH/g	9.4	8.3	8.7	8.6
Oxidation (PA)	%	84	57	56	67



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	59	62	57	84
Sulfation (PA)	%	61	51	50	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.2
Silicon	ppm	6	4	3	6
Sodium	ppm	<1	1	2	2
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	5	2	4	8
Copper	ppm	<1	<1	<1	3
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	0	<1	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	57	61	58
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1565	1032	1159	1114
Magnesium	ppm	517	869	955	877
Zinc	ppm	1110	1154	1286	1172
Phosphorus	ppm	929	961	1028	907
Barium	ppm	0	0	0	0
Boron	ppm	37	2	4	6

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO8769
Unique No: 10538776
Signed: Don Baldrige
Report Date: 04 Jul 2023



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GRAPHS

