



CONSTRUCTION EQUIPMENT

19793 KOPPERS-LELAND VOLVO L150H 6856 - DIESEL ENGINE



Sample No: VCP441579
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19793 KOPPERS-LELAND



SAMPLE INFORMATION

Sample Number	VCP441579	VCP415898	VCP421465	VCP313937
Sample Date	28 Sep 2023	13 Jul 2023	03 May 2023	11 Aug 2021
Machine Hours	6473	6021	5629	2042
Oil Hours	444	0	495	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.4	13.2
Base Number (BN)	mg KOH/g	8.4	9.0	9.9	---
Oxidation (PA)	%	54	58	82	59

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.



CONTAMINATION

Water	%	---	---	---	0.13
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	53	55	62	71
Sulfation (PA)	%	48	50	61	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	6
Sodium	ppm	<1	<1	1	1
Potassium	ppm	1	0	0	4



WEAR METALS

Iron	ppm	<1	4	4	9
Copper	ppm	<1	5	3	23
Lead	ppm	0	0	<1	1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	<1	3	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	58	62	39	64
Nickel	ppm	0	0	0	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1081	1213	1596	1143
Magnesium	ppm	946	965	545	1000
Zinc	ppm	1280	1306	1123	1190
Phosphorus	ppm	1085	1081	888	1058
Barium	ppm	0	0	0	0
Boron	ppm	11	8	34	34

Depot: VOLVO8769
Unique No: 10701632
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

