



CONSTRUCTION EQUIPMENT

19123 KOPPERS VOLVO L150H 6956 - DIESEL ENGINE



Sample No: VCP414185
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19123 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP414185	VCP424389	VCP331437	VCP328559
Sample Date	13 Jul 2023	27 Apr 2023	01 Dec 2021	07 Oct 2021
Machine Hours	5558	5052	2031	1681
Oil Hours	0	476	0	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	12.8	13.6	14.7
Base Number (BN)	mg KOH/g	8.6	9.0	7	---
Oxidation (PA)	%	58	73	137	61

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

Soot %	%	0.1	0.1	0.5	0.4
Nitration (PA)	%	58	48	108	70
Sulfation (PA)	%	51	55	94	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	2	6
Sodium	ppm	<1	2	1	2
Potassium	ppm	<1	2	<1	0



WEAR METALS

Iron	ppm	5	3	4	12
Copper	ppm	5	17	11	2
Lead	ppm	0	0	1	0
Tin	ppm	<1	<1	1	0
Aluminum	ppm	<1	<1	<1	4
Chromium	ppm	<1	0	<1	1
Molybdenum	ppm	62	44	59	59
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1179	1739	1207	1139
Magnesium	ppm	968	581	1037	1005
Zinc	ppm	1298	1193	1264	1236
Phosphorus	ppm	1063	956	1101	965
Barium	ppm	0	0	0	0
Boron	ppm	6	51	3	4

Depot: VOLVO8769
Unique No: 10586922
Signed: Don Baldrige
Report Date: 05 Aug 2023



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GRAPHS

