



CONSTRUCTION EQUIPMENT

X11234 VOLVO L150H 6931 - DIESEL ENGINE



Sample No: VCP444823
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X11234



SAMPLE INFORMATION

Sample Number	VCP444823	VCP444813	VCP402919	VCP402926
Sample Date	03 Apr 2024	08 Mar 2024	30 May 2023	27 Apr 2023
Machine Hours	0	7343	6618	5340
Oil Hours	7343	6839	0	0
Oil Changed	N/A	Changed	N/A	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	11.7	11.1	11.4
Base Number (BN)	mg KOH/g	10.6	9.9	7.3	6.0
Oxidation (PA)	%	76	68	55	56

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper 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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	39	77	68
Sulfation (PA)	%	58	57	52	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.0
Silicon	ppm	9	12	26	19
Sodium	ppm	4	0	0	3
Potassium	ppm	2	3	5	4



WEAR METALS

Iron	ppm	8	16	11	7
Copper	ppm	31	9	90	65
Lead	ppm	1	2	1	0
Tin	ppm	1	1	2	<1
Aluminum	ppm	2	51	<1	1
Chromium	ppm	1	4	0	0
Molybdenum	ppm	40	36	87	76
Nickel	ppm	2	<1	1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	3	3
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1587	1419	2188	2007
Magnesium	ppm	522	545	13	19
Zinc	ppm	1127	1045	1129	1127
Phosphorus	ppm	992	953	979	875
Barium	ppm	<1	28	0	0
Boron	ppm	66	82	67	60

Depot: VOLVO1034
Unique No: 10968328
Signed: Jonathan Hester
Report Date: 10 Apr 2024



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GRAPHS

