



CONSTRUCTION EQUIPMENT

674503 VOLVO L110G 8200 - DIESEL ENGINE



Sample No: VCP440686
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 674503



SAMPLE INFORMATION

Sample Number	VCP440686	VCP435962	VCP370554	VCP386898
Sample Date	22 Feb 2024	10 Nov 2023	02 Dec 2022	02 Sep 2022
Machine Hours	17946	17550	16481	15914
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

BLAZE CONSTRUCTION

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OIL CONDITION

Visc @ 100°C	cSt	14.0	14.4	14.7	14.5
Base Number (BN)	mg KOH/g	9.7	9.5	10.4	12.4
Oxidation (PA)	%	64	65	66	70

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	1	1.2	1.3
Nitration (PA)	%	69	75	82	93
Sulfation (PA)	%	57	58	64	65
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	5	5
Sodium	ppm	23	21	93	408
Potassium	ppm	2	1	0	9



WEAR METALS

Iron	ppm	17	18	15	23
Copper	ppm	2	1	1	2
Lead	ppm	<1	<1	0	4
Tin	ppm	1	<1	0	<1
Aluminum	ppm	5	4	4	3
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	56	54	60	71
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1212	1146	1248	1229
Magnesium	ppm	876	853	906	1053
Zinc	ppm	1204	1216	1261	1389
Phosphorus	ppm	949	986	1043	1109
Barium	ppm	1	0	0	<1
Boron	ppm	15	20	37	3

Depot: BLADET
Unique No: 10900913
Signed: Don Baldrige
Report Date: 29 Feb 2024



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GRAPHS

