



CONSTRUCTION EQUIPMENT

SWA468048 VOLVO L110G 8426 - DIESEL ENGINE



Sample No: VCP434457
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA468048



SAMPLE INFORMATION

Sample Number	VCP434457	VCP391460	VCP362600	VCP323902
Sample Date	01 Feb 2024	20 Oct 2022	01 Apr 2022	13 Sep 2021
Machine Hours	15905	14524	13974	13750
Oil Hours	80	500	500	250
Oil Changed	N/A	Changed	Changed	Not Changd
Sample Status	ATTENTION	SEVERE	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.7	12.4	13.3
Base Number (BN)	mg KOH/g	10.3	12.9	10.9	---
Oxidation (PA)	%	57	67	71	64

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels remain high. Test for glycol is negative. 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 %	%	0.3	0.6	0.5	0.3
Nitration (PA)	%	51	101	86	63
Sulfation (PA)	%	52	61	61	56
Glycol	%	NEG	0.10	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	2
Sodium	ppm	195	937	401	200
Potassium	ppm	5	30	19	6

WEAR METALS

Iron	ppm	13	18	14	3
Copper	ppm	<1	3	2	<1
Lead	ppm	<1	3	1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	4	4	1
Chromium	ppm	0	4	<1	<1
Molybdenum	ppm	58	73	33	30
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	1	1
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1149	1197	1438	1301
Magnesium	ppm	932	922	731	615
Zinc	ppm	1226	1232	980	888
Phosphorus	ppm	1025	1008	900	743
Barium	ppm	0	0	0	0
Boron	ppm	11	0	27	29

Depot: BLADET
Unique No: 10861612
Signed: Jonathan Hester
Report Date: 07 Feb 2024



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GRAPHS

