



CONSTRUCTION EQUIPMENT

VOLVO L220G 12011 - DIESEL ENGINE



Sample No: VCP395440
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP395440	VCP331146	VCP162229	VCP148622
Sample Date	15 Jan 2023	30 Nov 2021	30 Sep 2015	21 Jul 2015
Machine Hours	19908	18873	9146	8604
Oil Hours	19908	0	500	500
Oil Changed	Changed	Not Chngd	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:

OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	13.18	13.9
Base Number (BN)	mg KOH/g	10.1	11.6	---	---
Oxidation (PA)	%	78	77	64	56

T:
F:

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	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.1	0.2	0.1
Nitration (PA)	%	67	47	58	58
Sulfation (PA)	%	65	61	53	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	▲ 21	12	12
Sodium	ppm	3	6	4	4
Potassium	ppm	3	1	0	2

WEAR METALS

Iron	ppm	27	17	16	16
Copper	ppm	10	3	3	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	<1	0	<1
Aluminum	ppm	2	4	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	55	8	38
Nickel	ppm	0	0	1	2
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1671	1874	2071	1510
Magnesium	ppm	458	533	125	608
Zinc	ppm	1057	1054	1057	1004
Phosphorus	ppm	884	995	901	847
Barium	ppm	2	0	0	0
Boron	ppm	38	66	19	32

Depot: CALEAS
Unique No: 10294030
Signed: Jonathan Hester
Report Date: 17 Jan 2023



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VOLVO GRAPHS

