



CONSTRUCTION EQUIPMENT

2011 VOLVO L120G 31453 - DIESEL ENGINE



Sample No: VCP401786
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2011



SAMPLE INFORMATION

Sample Number	VCP401786	VCP393317	VCP374953	VCP379118
Sample Date	22 Aug 2023	27 Apr 2023	13 Dec 2022	19 Aug 2022
Machine Hours	12540	12120	11650	11150
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LEONARDS CONTRACTING
 30850 STEPHENSON HWY
 MADISON HEIGHTS, MI
 US 48071
 Contact: LARRY SCHRADE
 larry.schrade@sdevelop.com
 T: (810)499-1953
 F: x:



OIL CONDITION

Visc @ 100°C	cSt	14.1	14.5	14.4	14.2
Base Number (BN)	mg KOH/g	11.3	9.8	11.3	12.0
Oxidation (PA)	%	84	86	65	73

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 %	%	1.4	1.7	0.1	1.7
Nitration (PA)	%	79	86	61	83
Sulfation (PA)	%	66	67	57	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	3
Sodium	ppm	4	4	0	<1
Potassium	ppm	1	2	3	<1



WEAR METALS

Iron	ppm	17	24	21	22
Copper	ppm	1	<1	1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	5	8	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	40	44	59
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1949	1728	1951	1257
Magnesium	ppm	517	501	518	821
Zinc	ppm	1279	1191	1263	1258
Phosphorus	ppm	1037	957	1087	1053
Barium	ppm	0	0	0	0
Boron	ppm	38	32	42	13

Depot: LEOMAD
Unique No: 10632455
Signed: Wes Davis
Report Date: 06 Sep 2023

VOLVO **GRAPHS**

