



CONSTRUCTION EQUIPMENT

VOLVO L110H 631123 - DIESEL ENGINE



Sample No: VCP431770
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP431770	VCP422765	VCP420259	VCP396875
Sample Date	06 Oct 2023	14 Jul 2023	11 Apr 2023	13 Jan 2023
Machine Hours	2606	7249	7290	6729
Oil Hours	0	0	500	500
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.8	13.1
Base Number (BN)	mg KOH/g	10.3	10.3	9.1	10.1
Oxidation (PA)	%	80	81	77	82

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 %	%	0.3	0.3	0.3	0.4
Nitration (PA)	%	67	64	63	75
Sulfation (PA)	%	59	60	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	3	2	2	3
Potassium	ppm	2	<1	0	0

WEAR METALS

Iron	ppm	10	8	12	17
Copper	ppm	1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	0	1
Aluminum	ppm	5	4	5	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	42	46	42
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1649	1693	1693	1709
Magnesium	ppm	516	534	544	518
Zinc	ppm	1168	1200	1150	1099
Phosphorus	ppm	978	974	943	907
Barium	ppm	<1	0	0	0
Boron	ppm	22	26	29	22

Depot: RIPTAM
Unique No: 10723718
Signed: Wes Davis
Report Date: 02 Nov 2023



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VOLVO GRAPHS

