



CONSTRUCTION EQUIPMENT

VOLVO L110H 631123 - DIESEL ENGINE



Sample No: VCP422765
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP422765	VCP420259	VCP396875	VCP367157
Sample Date	14 Jul 2023	11 Apr 2023	13 Jan 2023	09 Sep 2022
Machine Hours	7249	7290	6729	6136
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	13.1	12.9
Base Number (BN)	mg KOH/g	10.3	9.1	10.1	12.0
Oxidation (PA)	%	81	77	82	90

CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.4
Nitration (PA)	%	64	63	75	77
Sulfation (PA)	%	60	54	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	8
Sodium	ppm	2	2	3	3
Potassium	ppm	<1	0	0	1

WEAR METALS

Iron	ppm	8	12	17	13
Copper	ppm	<1	<1	1	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	4	5	7	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	46	42	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1693	1693	1709	1703
Magnesium	ppm	534	544	518	487
Zinc	ppm	1200	1150	1099	1093
Phosphorus	ppm	974	943	907	907
Barium	ppm	0	0	0	0
Boron	ppm	26	29	22	23

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.

Depot: RIPTAM
Unique No: 10605791
Signed: Wes Davis
Report Date: 18 Aug 2023



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VOLVO GRAPHS

