



CONSTRUCTION EQUIPMENT

RIPA VOLVO L110H 631292 - DIESEL ENGINE



Sample No: VCP421232
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RIPA



SAMPLE INFORMATION

Sample Number	VCP421232	VCP388471	VCP374606	VCP319326
Sample Date	26 Jul 2023	26 Oct 2022	13 Jun 2022	24 Aug 2021
Machine Hours	8611	8154	7686	6721
Oil Hours	0	500	1500	500
Oil Changed	Not Chngd	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	12.5	13.3	12.9	12.7
Base Number (BN)	mg KOH/g	10.6	12.2	12.1	---
Oxidation (PA)	%	80	88	86	71

CONTAMINATION

Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	57	67	68	63
Sulfation (PA)	%	60	66	65	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	3
Sodium	ppm	2	2	1	2
Potassium	ppm	<1	0	<1	0

WEAR METALS

Iron	ppm	7	11	10	10
Copper	ppm	2	3	1	2
Lead	ppm	<1	1	<1	0
Tin	ppm	1	1	<1	<1
Aluminum	ppm	6	6	6	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	41	40	46
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1629	1734	1636	1561
Magnesium	ppm	533	498	456	476
Zinc	ppm	1170	1123	1103	1043
Phosphorus	ppm	950	931	903	882
Barium	ppm	0	0	0	0
Boron	ppm	46	52	38	29

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: 10605787
Signed: Wes Davis
Report Date: 17 Aug 2023



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GRAPHS

