



CONSTRUCTION EQUIPMENT

VOLVO L110H 631223 - DIESEL ENGINE



Sample No: VCP417012
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP417012	VCP400239	VCP325345	VCP305070
Sample Date	20 Jul 2023	20 Jan 2023	25 Jan 2022	08 Jun 2021
Machine Hours	8066	7447	6094	5196
Oil Hours	0	500	500	600
Oil Changed	Changed	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	12.4	12.8	13.3	12.8
Base Number (BN)	mg KOH/g	9.8	8.3	11.9	---
Oxidation (PA)	%	75	57	86	77

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	0.2	0.3	0.2
Nitration (PA)	%	71	69	68	73
Sulfation (PA)	%	57	50	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	3
Sodium	ppm	0	0	2	4
Potassium	ppm	1	1	0	<1



WEAR METALS

Iron	ppm	11	9	12	10
Copper	ppm	3	2	18	6
Lead	ppm	3	3	4	2
Tin	ppm	<1	1	1	1
Aluminum	ppm	6	7	6	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	54	77	40	44
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1673	1814	1744	1504
Magnesium	ppm	429	423	573	564
Zinc	ppm	1111	1319	1071	1061
Phosphorus	ppm	926	1048	980	915
Barium	ppm	2	<1	0	0
Boron	ppm	29	31	29	40

Depot: RIPTAM
Unique No: 10607038
Signed: Wes Davis
Report Date: 18 Aug 2023



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VOLVO GRAPHS

