



CONSTRUCTION EQUIPMENT

700575 VOLVO L110H 631298 - DIESEL ENGINE



Sample No: VCP451151
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700575



SAMPLE INFORMATION

Sample Number	VCP451151	VCP414216	VCP420212	VCP398705
Sample Date	04 Apr 2024	18 Jul 2023	10 Apr 2023	16 Dec 2022
Machine Hours	8536	8405	7851	7287
Oil Hours	500	500	500	500
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	12.8	13.0	13.3	12.5
Base Number (BN)	mg KOH/g	9.6	10.1	9.0	10.5
Oxidation (PA)	%	75	80	79	71

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	70	64	62	66
Sulfation (PA)	%	57	58	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	5	4
Sodium	ppm	2	3	<1	2
Potassium	ppm	2	1	1	0

WEAR METALS

Iron	ppm	15	21	11	7
Copper	ppm	13	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	2	2	<1	<1
Aluminum	ppm	7	5	<1	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	49	46	50	51
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1729	1786	1712	1731
Magnesium	ppm	546	559	473	418
Zinc	ppm	1200	1239	1139	1163
Phosphorus	ppm	1127	1015	928	937
Barium	ppm	<1	0	0	0
Boron	ppm	36	26	27	37

Depot: RIPTAM
Unique No: 11031016
Signed: Wes Davis
Report Date: 15 May 2024



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GRAPHS

