



CONSTRUCTION EQUIPMENT

VOLVO L110H 631289 - DIESEL ENGINE



Sample No: VCP428649
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP428649	VCP432481	VCP431776	VCP408284
Sample Date	14 Feb 2024	26 Oct 2023	06 Oct 2023	05 Jun 2023
Machine Hours	8659	8947	8187	7680
Oil Hours	0	0	500	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	13.1	12.8	13.2	12.1
Base Number (BN)	mg KOH/g	10.3	10.3	10.4	10.3
Oxidation (PA)	%	79	82	81	81

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 %	%	0.4	0.4	0.5	0.5
Nitration (PA)	%	64	69	71	72
Sulfation (PA)	%	59	59	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	7	5
Sodium	ppm	2	0	2	2
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	12	18	13	11
Copper	ppm	<1	1	1	1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	4	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	47	45	43
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	2002	1643	1681	1559
Magnesium	ppm	534	485	550	478
Zinc	ppm	1238	1061	1237	1019
Phosphorus	ppm	1033	853	1010	837
Barium	ppm	0	2	0	0
Boron	ppm	34	25	23	27

Depot: RIPTAM
Unique No: 10995429
Signed: Wes Davis
Report Date: 25 Apr 2024



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GRAPHS

