



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236662 - DIESEL ENGINE



Sample No: VCP443027
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443027	VCP433436	VCP306431	VCP269712
Sample Date	07 Jun 2024	28 Nov 2023	04 Feb 2021	17 Mar 2020
Machine Hours	4736	4274	1597	577
Oil Hours	0	500	500	577
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	13.8	13.4	12.7	13.2
Base Number (BN)	mg KOH/g	9.3	9.8	---	---
Oxidation (PA)	%	79	81	83	68

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	0.104	NEG
Soot %	%	1.3	1.2	0.7	0.4
Nitration (PA)	%	88	91	90	80
Sulfation (PA)	%	62	61	61	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	12	19
Sodium	ppm	<1	2	0	4
Potassium	ppm	3	4	<1	1



WEAR METALS

Iron	ppm	28	28	38	34
Copper	ppm	2	2	5	35
Lead	ppm	<1	1	<1	<1
Tin	ppm	1	<1	2	0
Aluminum	ppm	5	6	4	12
Chromium	ppm	2	2	5	3
Molybdenum	ppm	56	53	54	24
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	1	3
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1644	1757	1653	1282
Magnesium	ppm	476	451	679	711
Zinc	ppm	1159	1182	1186	849
Phosphorus	ppm	1007	975	1056	731
Barium	ppm	0	0	0	0
Boron	ppm	22	35	13	23

Depot: RIPTAM
Unique No: 11075039
Signed: Angela Borella
Report Date: 14 Jun 2024



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GRAPHS

