



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236651 - DIESEL ENGINE



Sample No: VCP411984
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP411984	VCP350174	VCP322143	VCP301581
Sample Date	17 Sep 2023	02 May 2022	15 Sep 2021	10 Feb 2021
Machine Hours	0	2754	2331	1548
Oil Hours	0	500	1500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	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	13.7	13.0	12.4	12.8
Base Number (BN)	mg KOH/g	8.3	12.1	---	---
Oxidation (PA)	%	64	82	78	80

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 %	%	0.5	0.5	0.6	0.3
Nitration (PA)	%	75	74	84	68
Sulfation (PA)	%	53	62	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.0	<1.0
Silicon	ppm	7	7	9	8
Sodium	ppm	3	2	3	0
Potassium	ppm	3	8	5	2



WEAR METALS

Iron	ppm	17	35	37	22
Copper	ppm	4	2	3	3
Lead	ppm	0	2	<1	<1
Tin	ppm	<1	1	2	1
Aluminum	ppm	5	4	8	6
Chromium	ppm	1	2	2	2
Molybdenum	ppm	70	46	54	48
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	5	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	2162	1638	1662	1661
Magnesium	ppm	284	658	550	569
Zinc	ppm	1299	1166	1187	1120
Phosphorus	ppm	1038	992	981	1040
Barium	ppm	0	0	0	0
Boron	ppm	34	20	14	24

Depot: RIPTAM
Unique No: 10649659
Signed: Wes Davis
Report Date: 20 Sep 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

