



CONSTRUCTION EQUIPMENT

63309 VOLVO SD115B 236555 - DIESEL ENGINE



Sample No: VCP305547
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 63309



SAMPLE INFORMATION

Sample Number	VCP305547	VCP284827	VCP262426	VCP244989
Sample Date	18 Jan 2021	06 Aug 2020	09 Mar 2020	22 Jul 2019
Machine Hours	3328	3841	2324	1116
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: ROBERT TURNER
 rturner@ripatampa.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.2	13.2	13.2
Oxidation (PA)	%	79	71	63	68

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.3	0.2
Nitration (PA)	%	76	76	84	59
Sulfation (PA)	%	60	57	56	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	8	8	13
Sodium	ppm	3	3	3	3
Potassium	ppm	4	15	0	7

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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	18	15	13	19
Copper	ppm	3	2	2	5
Lead	ppm	4	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	6	4	2	5
Chromium	ppm	3	2	2	5
Molybdenum	ppm	51	42	12	48
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1726	1451	1250	1310
Magnesium	ppm	709	736	740	762
Zinc	ppm	1222	1114	790	1025
Phosphorus	ppm	1027	880	726	866
Barium	ppm	0	0	0	0
Boron	ppm	18	13	22	8

Depot: RIPTAM
Unique No: 9347272
Signed: Wes Davis
Report Date: 02 Feb 2021



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GRAPHS

