



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236555 - DIESEL ENGINE



Sample No: VCP262426
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP262426	VCP244989	VCP242478	---
Sample Date	09 Mar 2020	22 Jul 2019	24 Apr 2019	---
Machine Hours	2324	1116	657	---
Oil Hours	500	500	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	12.92	---
Oxidation (PA)	%	63	68	80	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.2	0.3	---
Nitration (PA)	%	84	59	71	---
Sulfation (PA)	%	56	54	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	13	16	---
Sodium	ppm	3	3	5	---
Potassium	ppm	0	7	6	---

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	13	19	23	---
Copper	ppm	2	5	29	---
Lead	ppm	0	0	2	---
Tin	ppm	0	0	3	---
Aluminum	ppm	2	5	7	---
Chromium	ppm	2	5	3	---
Molybdenum	ppm	12	48	43	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1250	1310	1474	---
Magnesium	ppm	740	762	679	---
Zinc	ppm	790	1025	1002	---
Phosphorus	ppm	726	866	839	---
Barium	ppm	0	0	0	---
Boron	ppm	22	8	15	---

Depot: RIPTAM
Unique No: 8974676
Signed: Don Baldrige
Report Date: 31 Mar 2020



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GRAPHS

