



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236555 - DIESEL ENGINE



Sample No: VCP244989
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

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

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
 rturner@ripatampa.com



OIL CONDITION

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



CONTAMINATION

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

T:
F:

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



ADDITIVES

Calcium	ppm	1310	1474	---	---
Magnesium	ppm	762	679	---	---
Zinc	ppm	1025	1002	---	---
Phosphorus	ppm	866	839	---	---
Barium	ppm	0	0	---	---
Boron	ppm	8	15	---	---

Depot: RIPTAM
Unique No: 8694301
Signed: Wes Davis
Report Date: 08 Aug 2019



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GRAPHS

