



CONSTRUCTION EQUIPMENT

393309 VOLVO SD115B 236555 - DIESEL ENGINE



Sample No: VCP359056
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 393309



SAMPLE INFORMATION

Sample Number	VCP359056	VCP343533	VCP314710	VCP305547
Sample Date	02 May 2022	30 Nov 2021	12 Jun 2021	18 Jan 2021
Machine Hours	5221	4650	3986	3328
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 12.7	▲ 12.4	█ 12.8
Base Number (BN)	mg KOH/g	█ 8.0	█ 9.5	---	---
Oxidation (PA)	%	78	84	74	79

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 1	█ 0.5	█ 0.4	█ 0.4
Nitration (PA)	%	106	95	82	76
Sulfation (PA)	%	64	60	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	▲ 3.3	<1.0
Silicon	ppm	█ 7	█ 9	█ 5	█ 11
Sodium	ppm	█ 3	█ 3	█ 4	█ 3
Potassium	ppm	█ 6	█ 4	█ 1	█ 4

WEAR METALS

Iron	ppm	█ 23	█ 18	█ 15	█ 18
Copper	ppm	█ 2	█ 3	█ 3	█ 3
Lead	ppm	█ 2	█ <1	█ <1	█ 4
Tin	ppm	█ 1	█ 2	█ 2	█ 0
Aluminum	ppm	█ 3	█ 5	█ <1	█ 6
Chromium	ppm	█ 2	█ 2	█ 2	█ 3
Molybdenum	ppm	█ 63	█ 52	█ 52	█ 51
Nickel	ppm	█ <1	█ <1	█ <1	█ 0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	█ 1929	█ 1572	█ 1423	█ 1726
Magnesium	ppm	█ 409	728	745	█ 709
Zinc	ppm	█ 1159	█ 1240	█ 1166	█ 1222
Phosphorus	ppm	█ 956	█ 1031	█ 973	█ 1027
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 15	█ 11	█ 20	█ 18

Depot: RIPTAM
Unique No: 9971058
Signed: Wes Davis
Report Date: 12 May 2022



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GRAPHS

