



CONSTRUCTION EQUIPMENT

VOLVO SD115B 236554 - DIESEL ENGINE



Sample No: VCP435820
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP435820	VCP414211	VCP386103	VCP350271
Sample Date	13 Feb 2024	31 Jul 2023	13 Sep 2022	01 Feb 2022
Machine Hours	5960	5182	4714	4168
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
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T:
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OIL CONDITION

Visc @ 100°C	cSt	13.5	11.7	12.6	11.2
Base Number (BN)	mg KOH/g	8.6	9.2	11.1	7.7
Oxidation (PA)	%	57	78	82	69

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	0.3	0.5	0.6	0.2
Nitration (PA)	%	64	81	86	75
Sulfation (PA)	%	50	58	62	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.9	6.8	<1.0	<1.0
Silicon	ppm	6	9	19	33
Sodium	ppm	<1	0	2	<1
Potassium	ppm	4	4	3	5



WEAR METALS

Iron	ppm	15	29	36	22
Copper	ppm	<1	3	5	323
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	1	2	3
Aluminum	ppm	3	8	4	3
Chromium	ppm	<1	3	4	<1
Molybdenum	ppm	65	36	42	58
Nickel	ppm	0	<1	0	2
Titanium	ppm	<1	18	9	2
Silver	ppm	0	0	0	1
Manganese	ppm	0	<1	<1	5
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1472	1490	1549	1818
Magnesium	ppm	755	487	589	378
Zinc	ppm	1339	1083	1156	1262
Phosphorus	ppm	1085	896	961	1048
Barium	ppm	0	2	0	0
Boron	ppm	13	25	18	60

Depot: RIPTAM
Unique No: 10995433
Signed: Wes Davis
Report Date: 29 Apr 2024



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VOLVO GRAPHS

