

OIL ANALYSIS REPORT



VOLVO PENTA D3220I-G A245663 - DIESEL ENGINE

Sample No: VPA051555
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA051555	VPA015690	---	---
Sample Date	28 Mar 2024	21 Sep 2017	---	---
Machine Hours	1488	465	---	---
Oil Hours	0	22	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

Northwest Diesel Power
 1325 ROEDER AVE SUITE 103
 BELLINGHAM, WA
 US 98225
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.97	---	---
Base Number (BN)	mg KOH/g	8.8	---	---	---
Oxidation (PA)	%	58	48	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0	---	---
Nitration (PA)	%	63	50	---	---
Sulfation (PA)	%	54	47	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	11	6	---	---
Sodium	ppm	6	4	---	---
Potassium	ppm	7	12	---	---

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	27	19	---	---
Copper	ppm	7	5	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	1	0	---	---
Aluminum	ppm	4	3	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	38	16	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	2	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1639	1206	---	---
Magnesium	ppm	569	618	---	---
Zinc	ppm	1093	785	---	---
Phosphorus	ppm	952	706	---	---
Barium	ppm	0	0	---	---
Boron	ppm	298	137	---	---

Depot: VP759009
Unique No: 10955477
Signed: Don Baldrige
Report Date: 04 Apr 2024

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GRAPHS

