

OIL ANALYSIS REPORT

VOLVO PENTA

GLENN DUNMIRE 6641 CUMMINS 6BTA5.9-M3 46109737 - CENTER DIESEL ENGINE

Sample No: VPA060824

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA060824	VPA051556	---	---
Sample Date	13 May 2024	06 Mar 2024	---	---
Machine Hours	3718	3759	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

Northwest Diesel Power
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BELLINGHAM, WA
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 8.3	---	---
Oxidation (PA)	%	49	50	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	54	54	---	---
Sulfation (PA)	%	48	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 10	---	---
Sodium	ppm	█ 6	█ 7	---	---
Potassium	ppm	█ 6	█ 6	---	---

WEAR METALS

Iron	ppm	█ 66	█ 85	---	---
Copper	ppm	█ 4	█ 4	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 4	█ 6	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 8	█ 7	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1629	█ 2169	---	---
Magnesium	ppm	█ 669	█ 914	---	---
Zinc	ppm	█ 927	█ 1217	---	---
Phosphorus	ppm	█ 812	█ 1115	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 144	█ 198	---	---

Depot: VP759009
Unique No: 11033941
Signed: Don Baldrige
Report Date: 20 May 2024

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GRAPHS

