

OIL ANALYSIS REPORT



JOSH HOFFMAN 7718374 VOLVO PENTA 2203127371 - CENTER DIESEL ENGINE

Sample No: VPA051809
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA051809	VPA036239	---	---
Sample Date	08 Jan 2024	27 Oct 2023	---	---
Machine Hours	2460	2432	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

Pacific Power Group - VP981534
 7215 S 228th St
 Kent, WA
 US 98032
 Contact: PAT RYAN
 pryan@pacificpowergroup.com
 T: (253)520-5163
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	---	---
Base Number (BN)	mg KOH/g	10.3	9.7	---	---
Oxidation (PA)	%	57	71	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	48	68	---	---
Sulfation (PA)	%	51	60	---	---
Glycol	%	NEG	0.0	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	34	15	---	---
Sodium	ppm	18	118	---	---
Potassium	ppm	0	4	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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	1	12	---	---
Copper	ppm	3	3	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	65	100	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1003	1295	---	---
Magnesium	ppm	892	709	---	---
Zinc	ppm	1204	942	---	---
Phosphorus	ppm	1032	776	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	35	243	---	---

Depot: VP99031103
Unique No: 10842767
Signed: Don Baldrige
Report Date: 23 Jan 2024

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

