

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ARI ARIRANG ARI ARIRANG VOLVO PENTA 2071169195 - PORT DIESEL ENGINE

Sample No: VPA048616

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA048616	---	---	---
Sample Date	04 Aug 2023	---	---	---
Machine Hours	1014	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

North Harbor Diesel Inc

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	61	---	---	---

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

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	47	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 115	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1521	---	---	---
Magnesium	ppm	█ 689	---	---	---
Zinc	ppm	█ 871	---	---	---
Phosphorus	ppm	670	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 371	---	---	---

Depot: VP179089
Unique No: 10592420
Signed: Sean Felton
Report Date: 11 Aug 2023

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GRAPHS

