

OIL ANALYSIS REPORT

VOLVO PENTA

STOCK VOLVO PENTA A1215174 - STARBOARD GASOLINE ENGINE

Sample No: VPA021415

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA021415	---	---	---
Sample Date	10 Jul 2023	---	---	---
Machine Hours	10	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Arrowhead Investment & Dev. Co.
600
KETCHUM, OK
US 74349-9999
Contact:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	12	---	---	---

T:
F:

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	6	---	---	---
Sulfation (PA)	%	10	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 45	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 7	---	---	---

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	37	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	2681	---	---	---
Magnesium	ppm	50	---	---	---
Zinc	ppm	821	---	---	---
Phosphorus	ppm	704	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	8	---	---	---

Depot: VP166064
Unique No: 10562257
Signed: Jonathan Hester
Report Date: 20 Jul 2023

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GRAPHS

