OIL ANALYSIS REPORT

VOLVO PENTA

PAULINA AZIMUT 43 VOLVO PENTA A760298 - STARBOARD DIESEL ENGINE

Sample No: VPA051056

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number		**VPA051056**	---	---	---
Sample Date		**04 Apr 2024**	---	---	---
Machine Hours		**1429**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.19**	---	---	---
Base Number (BN)	mg KOH/g	**9.5**	---	---	---
Oxidation (PA)	%	**50**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**43**	---	---	---
Sulfation (PA)	%	**51**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**6**	---	---	---
Sodium	ppm	**1073**	---	---	---
Potassium	ppm	**45**	---	---	---

WEAR METALS

Iron	ppm	**93**	---	---	---
Copper	ppm	**10**	---	---	---
Lead	ppm	**3**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**27**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**50**	---	---	---
Nickel	ppm	**2**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1260**	---	---	---
Magnesium	ppm	**1029**	---	---	---
Zinc	ppm	**1160**	---	---	---
Phosphorus	ppm	**1120**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**8**	---	---	---

Marine International Diesels Inc.
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DAVIE, FL
US 33314
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Diagnosis

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.Piston and cylinder wear is indicated. Sodium and/or potassium levels are high. The high sodium (Na) level indicates the possible presence of salt water. The water content is negligible. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP694356
Unique No: 10969658
Signed: Doug Bogart
Report Date: 10 Apr 2024

OIL ANALYSIS REPORT

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GRAPHS