OIL ANALYSIS REPORT

VOLVO PENTA

MANNE MAX 14227   VOLVO PENTA A422940 - STARBOARD DIESEL ENGINE

Sample No: VPA055075

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		**VPA055075**	---	---	---
Sample Date		**22 Aug 2023**	---	---	---
Machine Hours		**2415**	---	---	---
Oil Hours		**2415**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▪**13.3**	---	---	---
Base Number (BN)	mg KOH/g	▪**9.8**	---	---	---
Oxidation (PA)	%	**55**	---	---	---

CONTAMINATION

Soot %	%	▪**0.2**	---	---	---
Nitration (PA)	%	**48**	---	---	---
Sulfation (PA)	%	**50**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	▪**6**	---	---	---
Sodium	ppm	▪**1**	---	---	---
Potassium	ppm	▪**1**	---	---	---

WEAR METALS

Iron	ppm	▪**9**	---	---	---
Copper	ppm	▪**3**	---	---	---
Lead	ppm	▪**<1**	---	---	---
Tin	ppm	▪**<1**	---	---	---
Aluminum	ppm	▪**2**	---	---	---
Chromium	ppm	▪**<1**	---	---	---
Molybdenum	ppm	▪**59**	---	---	---
Nickel	ppm	▪**0**	---	---	---
Titanium	ppm	▪**0**	---	---	---
Silver	ppm	▪**0**	---	---	---
Manganese	ppm	▪**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	▪**1095**	---	---	---
Magnesium	ppm	▪**982**	---	---	---
Zinc	ppm	▪**1253**	---	---	---
Phosphorus	ppm	▪**1038**	---	---	---
Barium	ppm	▪**<1**	---	---	---
Boron	ppm	▪**7**	---	---	---

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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.

Depot:	VP981217
Unique No:	10633429
Signed:	Sean Felton
Report Date:	08 Sep 2023

Report Id: VP981217 [WUSCAR] 05942817 (Generated: 09/08/2023 09:58:25) Rev: 1   Contact/Location: KARIM PERSAUD - VP981217

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GRAPHS

Iron (ppm)

Lead (ppm)

Aluminum (ppm)

Chromium (ppm)

Copper (ppm)

Silicon (ppm)

Viscosity @ 100°C

Base Number