

OIL ANALYSIS REPORT



GENE DORN GREG E. VOLVO PENTA A1160581 - STARBOARD DIESEL ENGINE

Sample No: VPA057442
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057442	VPA056264	---	---
Sample Date	26 Jun 2024	30 Jun 2023	---	---
Machine Hours	168	40	---	---
Oil Hours	127	40	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	---	---
Base Number (BN)	mg KOH/g	9.6	9.7	---	---
Oxidation (PA)	%	55	64	---	---

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

Water	%	NEG	NEG	---	---
Soot %	%	0.5	0.2	---	---
Nitration (PA)	%	48	44	---	---
Sulfation (PA)	%	53	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	20	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	6	3	---	---

WEAR METALS

Iron	ppm	20	11	---	---
Copper	ppm	7	14	---	---
Lead	ppm	3	3	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	6	2	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	61	111	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1072	1563	---	---
Magnesium	ppm	892	616	---	---
Zinc	ppm	1219	857	---	---
Phosphorus	ppm	1035	723	---	---
Barium	ppm	0	0	---	---
Boron	ppm	26	383	---	---

Depot: VP648685
Unique No: 11110452
Signed: Don Baldrige
Report Date: 05 Jul 2024

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GRAPHS

