

OIL ANALYSIS REPORT



KEN KNESSY - TIARA VOLVO PENTA 2006009529 - PORT DIESEL ENGINE

Sample No: VPA036156
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036156	VPA043525	VPA043970	---
Sample Date	16 Jan 2024	16 Dec 2022	02 Dec 2021	---
Machine Hours	751	715	686	---
Oil Hours	751	715	686	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Larry's Lighthouse Marina
 1250
 AQUEBOGUE, NY
 US 11931
 Contact: MAX FUHLBRUGGE
 info@lighthousemarina.com
 T: x
 F: x

OIL CONDITION

Visc @ 100°C	cSt	14.6	14.2	14.6	---
Base Number (BN)	mg KOH/g	8.5	10.4	8.2	---
Oxidation (PA)	%	65	51	71	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	55	55	60	---
Sulfation (PA)	%	55	50	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	2	3	---
Sodium	ppm	<1	2	6	---
Potassium	ppm	8	4	8	---

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.

WEAR METALS

Iron	ppm	9	13	26	---
Copper	ppm	<1	<1	1	---
Lead	ppm	<1	<1	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	4	8	34	---
Chromium	ppm	<1	<1	3	---
Molybdenum	ppm	7	32	2	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	1	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1938	1783	2277	---
Magnesium	ppm	135	630	19	---
Zinc	ppm	1132	1269	1237	---
Phosphorus	ppm	959	1078	1030	---
Barium	ppm	0	0	0	---
Boron	ppm	157	72	183	---

Depot: VP610438
Unique No: 10870759
Signed: Don Baldrige
Report Date: 09 Feb 2024

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GRAPHS

