

OIL ANALYSIS REPORT



BRIAN 7011446309 - PORT DIESEL ENGINE

Sample No: VPA053424

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA053424	VPA045994	VPA045997	VPA045996
Sample Date	21 Jun 2024	29 Feb 2024	03 Nov 2023	15 Aug 2023
Machine Hours	3529	9025	8508	8156
Oil Hours	290	300	350	451
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

FURY KEY WEST
 313 MARGARET ST
 KEY WEST, FL
 US 33040
 Contact: MARCEL GELUK
 marcel@furykeywest.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	12.8	12.0
Base Number (BN)	mg KOH/g	8.4	8.6	9.1	8.9
Oxidation (PA)	%	65	65	64	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.4	0.4	0.5
Nitration (PA)	%	73	68	66	61
Sulfation (PA)	%	59	55	55	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	6	3	4	3
Potassium	ppm	3	<1	0	<1

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.

WEAR METALS

Iron	ppm	8	5	2	5
Copper	ppm	64	38	16	13
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	3	1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	48	50	49	58
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	1595	1477	1460	1199
Magnesium	ppm	587	536	559	867
Zinc	ppm	1315	1201	1294	1234
Phosphorus	ppm	1085	1094	1037	1018
Barium	ppm	0	0	0	0
Boron	ppm	17	27	19	9

Depot: VPFURKEY
 Unique No: 11101146
 Signed: Don Baldrige
 Report Date: 30 Jun 2024

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VOLVO PENTA

GRAPHS

