

OIL ANALYSIS REPORT



BRIAN 7011446309 - PORT DIESEL ENGINE

Sample No: VPA045994
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA045994	VPA045997	VPA045996	VPA034118
Sample Date	29 Feb 2024	03 Nov 2023	15 Aug 2023	13 Jan 2023
Machine Hours	9025	8508	8156	7016
Oil Hours	300	350	451	320
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
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	12.0	12.1
Base Number (BN)	mg KOH/g	8.6	9.1	8.9	9.7
Oxidation (PA)	%	65	64	61	56

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.5	0.4
Nitration (PA)	%	68	66	61	53
Sulfation (PA)	%	55	55	56	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	3
Sodium	ppm	3	4	3	2
Potassium	ppm	<1	0	<1	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	5	2	5	4
Copper	ppm	38	16	13	15
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	1	1	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	50	49	58	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1477	1460	1199	1027
Magnesium	ppm	536	559	867	860
Zinc	ppm	1201	1294	1234	1168
Phosphorus	ppm	1094	1037	1018	977
Barium	ppm	0	0	0	0
Boron	ppm	27	19	9	1

Depot: VPFURKEY
Unique No: 10916080
Signed: Don Baldrige
Report Date: 11 Mar 2024

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VOLVO PENTA

GRAPHS

