

OIL ANALYSIS REPORT



50-55 3499 FISCHER PANDA 172670 - CENTER GENSET

Sample No: VPA049741
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA049741	VPA049737	VPA048459	---
Sample Date	10 Nov 2023	06 Nov 2023	01 Oct 2022	---
Machine Hours	784	744	662	---
Oil Hours	0	0	150	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

GRAND BANKS
 450 SW SALEM RD
 STUART, FL
 US 34994
 Contact: ROBERT ANTONA
 roberta@gbmarinegroup.com
 T: (609)384-5290
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.6	13.54	13.0	---
Base Number (BN)	mg KOH/g	10.2	8.1	10.9	---
Oxidation (PA)	%	38	69	63	---

CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	47	48	50	---
Sulfation (PA)	%	45	57	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.0	<1.0	---
Silicon	ppm	10	8	11	---
Sodium	ppm	2	0	<1	---
Potassium	ppm	<1	7	2	---

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	10	4	3	---
Copper	ppm	3	<1	<1	---
Lead	ppm	<1	<1	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	4	2	2	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	4	14	54	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	3677	1957	1227	---
Magnesium	ppm	27	195	852	---
Zinc	ppm	1096	1155	1236	---
Phosphorus	ppm	919	1025	1032	---
Barium	ppm	0	5	0	---
Boron	ppm	10	175	20	---

Depot: VP531377
Unique No: 10743032
Signed: Don Baldrige
Report Date: 19 Nov 2023

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VOLVO PENTA

GRAPHS

