

# OIL ANALYSIS REPORT



## DERRICK 3655/PB70-01 FISCHER PANDA SN173412 - CENTER GENSET

Sample No: VPA034281

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA034281	VPA044583	VPA043764	VPA037271
Sample Date	12 Mar 2024	28 Nov 2022	20 Jun 2022	11 Feb 2022
Machine Hours	1068	860	647	633
Oil Hours	0	150	100	150
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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### OIL CONDITION

Visc @ 100°C	cSt	13.9	13.7	13.8	13.4
Base Number (BN)	mg KOH/g	8.7	9.3	7.9	9.1
Oxidation (PA)	%	65	71	67	72

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	45	58	52	61
Sulfation (PA)	%	55	60	56	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	5	16
Sodium	ppm	4	2	2	6
Potassium	ppm	7	8	6	8

### WEAR METALS

Iron	ppm	3	5	4	8
Copper	ppm	0	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	<1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	5	<1	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	1	3
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

### ADDITIVES

Calcium	ppm	2077	2253	2138	2440
Magnesium	ppm	95	12	14	12
Zinc	ppm	1168	1155	1186	1134
Phosphorus	ppm	1000	972	922	1085
Barium	ppm	0	0	0	0
Boron	ppm	191	191	237	197

### 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.

Depot: VP531377

Unique No: 10930170

Signed: Don Baldrige

Report Date: 20 Mar 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

