

OIL ANALYSIS REPORT



DERRICK 3655/PB70-01 FISCHER PANDA SN173411 - CENTER GENSET

Sample No: VPA034274

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA034274	VPA044315	VPA043898	VPA037272
Sample Date	12 Mar 2024	28 Nov 2022	20 Jun 2022	11 Feb 2022
Machine Hours	946	966	691	524
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	13.8	13.7	14.3	13.8
Base Number (BN)	mg KOH/g	8.5	9.3	8.4	9.6
Oxidation (PA)	%	65	71	64	71

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	44	57	45	53
Sulfation (PA)	%	54	60	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	4	20
Sodium	ppm	4	1	2	2
Potassium	ppm	6	8	7	6

WEAR METALS

Iron	ppm	4	4	3	15
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	1	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	8	<1	2	2
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2063	2180	2039	2195
Magnesium	ppm	142	12	30	21
Zinc	ppm	1187	1123	1167	1102
Phosphorus	ppm	1008	949	925	933
Barium	ppm	0	0	0	0
Boron	ppm	187	189	238	200

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: 10930169

Signed: Don Baldrige

Report Date: 20 Mar 2024

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VOLVO PENTA

GRAPHS

