

OIL ANALYSIS REPORT



GRANT BOTH 505830 ONAN L180458792 - GENSET

Sample No: VPA052136

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA052136	VPA041032	VPA029991	VPA032961
Sample Date	18 Jan 2024	12 Dec 2022	06 Jan 2022	10 Feb 2021
Machine Hours	888	777	617	385
Oil Hours	111	150	200	150
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Jefferson Beach Yacht Sales Inc
 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
 Contact: CORT CORINO
 ccorino@jbys.com
 T: (773)641-6947
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.1	13.1	13.3
Base Number (BN)	mg KOH/g	7.8	11.6	11.3	---
Oxidation (PA)	%	57	89	67	63

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	60	74	65	56
Sulfation (PA)	%	50	65	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	8
Sodium	ppm	3	0	2	3
Potassium	ppm	3	2	<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 suitable for further service.

WEAR METALS

Iron	ppm	7	24	8	6
Copper	ppm	0	2	2	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	64	58	56	55
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	2	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1741	1087	1073	1135
Magnesium	ppm	252	898	954	872
Zinc	ppm	1149	1207	1107	1125
Phosphorus	ppm	991	1014	1032	1017
Barium	ppm	<1	<1	0	<1
Boron	ppm	94	5	4	9

Depot: VP297371
Unique No: 10847951
Signed: Don Baldrige
Report Date: 29 Jan 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

