

OIL ANALYSIS REPORT



THOMAS MARTIN 506087 KOHLER SGM32HJ37 - GENSET

Sample No: VPA062097

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA062097	VPA044442	VPA048941	VPA026710
Sample Date	03 Apr 2024	24 Mar 2023	10 Mar 2022	24 Feb 2021
Machine Hours	1507	1386	1290	1156
Oil Hours	121	100	123	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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	13.6	13.6	13.83	13.8
Base Number (BN)	mg KOH/g	9.8	10.1	11.4	---
Oxidation (PA)	%	59	57	63	57

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.6
Nitration (PA)	%	46	45	49	53
Sulfation (PA)	%	51	53	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	10
Sodium	ppm	<1	2	0	2
Potassium	ppm	0	<1	<1	0

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	4	6	8	8
Copper	ppm	<1	<1	1	25
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	56	57	55	60
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1063	1063	1069	1210
Magnesium	ppm	968	898	921	1073
Zinc	ppm	1226	1220	1266	1252
Phosphorus	ppm	1034	1007	1051	1030
Barium	ppm	0	0	0	0
Boron	ppm	2	2	3	2

Depot: VP297371
Unique No: 10965786
Signed: Sean Felton
Report Date: 10 Apr 2024

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VOLVO PENTA

GRAPHS

