

OIL ANALYSIS REPORT



KNUDSON ONAN C180338824 - GENSET

Sample No: VPA050917

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA050917	VPA044932	VPA045138	VPA257716
Sample Date	19 Jun 2024	19 Sep 2023	13 Jul 2022	09 Jun 2020
Machine Hours	1493	672	662	152
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: SERVICE MANAGER
info@suncoastdmi.com
T: (941)342-0033
F:

OIL CONDITION

Visc @ 100°C	cSt	12.6	12.1	12.4	12.6
Base Number (BN)	mg KOH/g	9.8	9.5	9.1	---
Oxidation (PA)	%	54	54	82	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	1.4	0.1
Nitration (PA)	%	47	41	113	68
Sulfation (PA)	%	50	50	75	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.2	<1.0	<1.0
Silicon	ppm	6	13	6	19
Sodium	ppm	1	4	1	8
Potassium	ppm	3	3	0	<1

WEAR METALS

Iron	ppm	5	15	10	15
Copper	ppm	3	7	1	13
Lead	ppm	0	<1	<1	5
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	3	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	60	128	54	44
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	2	<1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1114	1518	1493	1872
Magnesium	ppm	1003	722	733	520
Zinc	ppm	1323	853	1093	1076
Phosphorus	ppm	1077	714	859	994
Barium	ppm	0	0	4	6
Boron	ppm	7	288	21	49

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: VP705283
Unique No: 11101147
Signed: Don Baldrige
Report Date: 30 Jun 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

