

[ROBERT] ROBERT - STARBOARD DIESEL ENGINE

Sample No: VPA029268

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA029268	---	---	---
Sample Date	08 Sep 2020	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

BAY MARINE
3 E MADISON ST
WAUKEGAN, IL
US 60085
Contact: MARK
mark@baymarine.net
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.18	---	---	---
Oxidation (PA)	%	54	---	---	---

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 5	---	---	---

WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 10	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1272	---	---	---
Magnesium	ppm	█ 659	---	---	---
Zinc	ppm	█ 734	---	---	---
Phosphorus	ppm	█ 686	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 107	---	---	---

Depot: VP1174336
Unique No: 9167965
Signed: Doug Bogart
Report Date: 10 Sep 2020

GRAPHS

