**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

D. BOMAR

## **NORTHERN LIGHTS K05508**

Genset

Pluid

CHELL BOTELLA T 15W/10 (.

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA056850		
	Sample Date		Client Info		11 Apr 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
/EAR	Iron	nnm	ASTM D5185m	\50	12		
ZEAN		ppm					
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>70	2		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
ONTAMINATION	Potassium	ppm	ASTM D5185m		6		
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>4.0	<1.0		
	Water		WC Method		NEG		
			WC Method	>0.1			
	Glycol	0/			NEG		
	Soot %	%	*ASTM D7844	00	0.1		
	Nitration	Abs/cm	*ASTM D7624		6.5		
	Sulfation	Abs/.1mm	*ASTM D7415		19.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m	316	211		
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.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		8		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m	24	49		
	Calcium	ppm	ASTM D5185m		2191		
	Phosphorus	ppm	ASTM D5185m		863		
	Zinc	ppm	ASTM D5185m		1128		
	Sulfur	ppm	ASTM D5185m		3842		
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		16.4 8.2		
	Base Number (BN)						







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Lab Number : 06150133 Unique Number : 10980211

: VPA056850

Received **Tested** Diagnosed

: 16 Apr 2024 : 17 Apr 2024

: 18 Apr 2024 - Don Baldridge

**Aqua Yacht Harbor Marina** 3832 Hwy. 25 North, 3832 Hwy. 25 North

IUKA, MS US 38852 Contact: DENNIS KANIZAI

dkanizai@shmarinas.com

Test Package : MOB 1 ( Additional Tests: TBN ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: