



LAMPHER ZF 20039516 - STARBOARD TRANSMISSION

Sample No: VPA045597 Oil Type: SAE 30W

Sample Number	SAMPLE INFORM	IATION			
Sample Date 03 Jan 2024	Sample Number		VPA045597	 	
Machine Hours 0 <t< td=""><td>•</td><td></td><td>03 Jan 2024</td><td> </td><td></td></t<>	•		03 Jan 2024	 	
Oil Changed Sample Status N/A ATTENTION	•		0	 	
Sample Status ATTENTION	Oil Hours		0	 	
OIL CONDITION Vise @ 40°C	Oil Changed		N/A	 	
Visc @ 40°C cSt 84.0 <	Sample Status		ATTENTION	 	
Vater	OIL CONDITION				
Neg	Visc @ 40°C	cSt	■84.0	 	
Silicon ppm ■83 WEAR METALS WEAR METALS PQ ■16 Iron ppm ■3 Copper ppm ■26 Lead ppm ■5 <td< td=""><td>CONTAMINATION</td><td>l</td><td></td><td></td><td></td></td<>	CONTAMINATION	l			
Silicon ppm ■83	Water	%	NEG	 	
Sodium ppm ■83 WEAR METALS WEAR METALS PQ ■16 Iron ppm ■3 Copper ppm ■26 Lead ppm ■1 Tin ppm ■1 Aluminum ppm ■1 <		ppm	2	 	
Potassium ppm <1 WEAR METALS PQ 16 Iron ppm 3 Copper ppm 26 Lead ppm 495 Tin ppm 1 Aluminum ppm 1 Chromium ppm 0 Molybdenum ppm 63 Nickel ppm 0 Silver ppm 0 Manganese ppm <-1	Sodium		■83	 	
WEAR METALS PQ 16 Iron ppm 3 Copper ppm 26 Lead ppm 4 95 Tin ppm 1 Aluminum ppm 1 Chromium ppm 0 Molybdenum ppm 063	Potassium	ppm	■<1	 	
Iron	WEAR METALS				
Copper ppm 26 <t< td=""><td>PQ</td><td></td><td>16</td><td> </td><td></td></t<>	PQ		16	 	
Lead ppm ▲ 95 <t< td=""><td></td><td>ppm</td><td>■3</td><td> </td><td></td></t<>		ppm	■ 3	 	
Tin ppm 1 1	Copper	ppm	■ 26	 	
Aluminum ppm 1 <t< td=""><td>Lead</td><td>ppm</td><td></td><td> </td><td></td></t<>	Lead	ppm		 	
Chromium ppm 0 Molybdenum ppm 63 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0 Vanadium ppm 0 ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0		ppm	■<1	 	
Molybdenum ppm 63 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0 Vanadium ppm 0 ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0		ppm	_	 	
Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 0 Vanadium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0		ppm		 	
Titanium ppm 0 Silver ppm 0	Molybdenum	ppm	_	 	
Silver ppm 0 Manganese ppm <1 Vanadium ppm 0 ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0		ppm	-	 	
Manganese ppm Vanadium ppm 0 ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0				 	
Vanadium ppm 0 ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0			-		
ADDITIVES Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0	3	ppm		 	
Calcium ppm 1135 Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0	Vanadium	ppm	0	 	
Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0	ADDITIVES				
Magnesium ppm 435 Zinc ppm 762 Phosphorus ppm 694 Barium ppm 0	Calcium	ppm	1135	 	
Zinc ppm	Magnesium		435	 	
Phosphorus ppm 694 Barium ppm 0	-		762	 	
	Phosphorus	ppm	694	 	
Boron ppm 145	Barium	ppm	0	 	
	Boron	ppm	145	 	

Aqua Yacht Harbor Marina

3832 Hwy. 25 North, 3832 Hwy. 25 North IUKA, MS
US 38852
Contact: DENNIS KANIZAI dkanizai@shmarinas.com

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot:VP299833Unique No:10821549Signed:Jonathan HesterReport Date:10 Jan 2024

OIL ANALYSIS REPORT



