



OIL REPORT

LAB NUMBER: L66942

UNIT ID: BORG WARNER-TR

REPORT DATE: 10/17/2019

CLIENT ID: 115367

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Transmission Borg Warner - Marine
FUEL TYPE:
ADDITIONAL INFO: Model: 71C, Reduction Gear Tranny

OIL TYPE & GRADE: Transmission Oil
OIL USE INTERVAL: 1,000 Hours

CLIENT

JAY LEONARD
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COMMENTS

JAY: The first look at your transmission shows high levels of copper and lead. While these values are high compared to universal averages, your oil run was longer so metals had more time to accumulate. These amounts of copper and lead are often from harmless sources (e.g. oxides washing off an oil cooler or heat exchanger). If the transmission is operating like it should, then we don't have reason to suspect these levels are a problem. A trace of insolubles was present, which is below the 0.1% max. If all is well on your end, just check back to compare results.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	4,939							
	Sample Date	9/10/2019							
	Make Up Oil Added								
	ALUMINUM	2		2					
	CHROMIUM	0		0					
	IRON	58		58					
	COPPER	688		688					
	LEAD	371		371					
	TIN	1		1					
	MOLYBDENUM	86		86					
	NICKEL	0		0					
	MANGANESE	1		1					
	SILVER	0		0					
	TITANIUM	1		1					
	POTASSIUM	1		1					
	BORON	64		64					
	SILICON	6		6					
	SODIUM	6		6					
	CALCIUM	2553		2553					222
	MAGNESIUM	204		204					22
	PHOSPHORUS	678		678					261
	ZINC	767		767					107
	BARIUM	0		0					3

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	49.0					
	cSt Viscosity @ 100°C	6.96					
	Flashpoint in °F	440					
	Fuel %	-					
	Antifreeze %	-					
	Water %	0.0	0.0				
	Insolubles %	TR	<0.1				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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