



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	OIL TYPE & GRADE: Transmission Oil
	FUEL TYPE:	OIL USE INTERVAL: 1,000 Hours
	ADDITIONAL INFO: Model: 71C, Reduction Gear Tranny	

CLIENT	JAY LEONARD	PHONE: (860) 830-2530
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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						1
CHROMIUM	0	0						0
IRON	58	58						66
COPPER	688	688						117
LEAD	371	371						41
TIN	1	1						1
MOLYBDENUM	86	86						5
NICKEL	0	0						1
MANGANESE	1	1						2
SILVER	0	0						0
TITANIUM	1	1						0
POTASSIUM	1	1						2
BORON	64	64						76
SILICON	6	6						8
SODIUM	6	6						8
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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