



# OIL REPORT

LAB NUMBER: L66937      UNIT ID: GEN SET-G  
 REPORT DATE: 10/17/2019      CLIENT ID: 115367  
 CODE: 20/32      PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL:   Westerbeke W-13	OIL TYPE & GRADE:   Shell Rotella T 15W/40
	FUEL TYPE:   Diesel	OIL USE INTERVAL:   35 Hours
	ADDITIONAL INFO:	

<b>CLIENT</b>	JAY LEONARD	PHONE: (860) 830-2530
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	NEW PORT RICHEY, FL 34652	ALT PHONE:
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**COMMENTS** JAY: From a wear metal point of view, this is a great report for your Genset. Wear metals are at or below universal averages, which show typical wear for this type of generator after ~40 hours on the oil. There is one thing out of line in this report, and that's silicon. If work was done on the engine, it could be harmless sealers/lube. If not, it might be dirt/debris getting past the air filter, but we'd probably see higher wear metals if that was the case. No fuel/coolant was found in the oil and insolubles at 0.3% shows effective oil filtration. Inspect air filtration and check back.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	35	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	2,645						
	Sample Date	9/10/2019						
	Make Up Oil Added							
ALUMINUM	1	1					3	
CHROMIUM	1	1					3	
IRON	6	6					16	
COPPER	1	1					5	
LEAD	1	1					1	
TIN	0	0					0	
MOLYBDENUM	1	1					22	
NICKEL	0	0					0	
MANGANESE	0	0					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	5	5					2	
BORON	48	48					43	
SILICON	15	15					5	
SODIUM	9	9					6	
CALCIUM	2515	2515					2370	
MAGNESIUM	9	9					139	
PHOSPHORUS	1098	1098					985	
ZINC	1276	1276					1146	
BARIUM	0	0					0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	79.4	69-80				
	cSt Viscosity @ 100°C	15.37	12.7-15.8				
	Flashpoint in °F	430	>410				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0				
	Water %	0.0	0.0				
	Insolubles %	0.3	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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