



OIL REPORT

LAB NUMBER: L66937

UNIT ID: GEN SET-G

REPORT DATE: 10/17/2019

CLIENT ID: 115367

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Westerbeke W-13
FUEL TYPE: Diesel
ADDITIONAL INFO:

OIL TYPE & GRADE: Shell Rotella T 15W/40
OIL USE INTERVAL: 35 Hours

CLIENT

JAY LEONARD
4112 WOODSVILLE DR
NEW PORT RICHEY, FL 34652

PHONE: (860) 830-2530
FAX:
ALT PHONE:
EMAIL: leonaj99@yahoo.com

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.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	35	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	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*

PROPERTIES	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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