

OIL REPORT

LAB NUMBER: L00164
REPORT DATE: 3/12/2019

CODE: 20/32

UNIT ID: N867DB

CLIENT ID:

PAYMENT: Prepaid

JNIT

MAKE/MODEL: Continental IO-550-BB18 OIL TYPE & GRADE: Phillips XC (A/C) 20W/50

FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 44 Hours

ADDITIONAL INFO: Beech F33A, S/N: 578236, Superior Millennium

CLIENT

COMMENTS

You noted low compressions and an exhaust valve leak, and those comments confirm our findings: this engine is wearing heavily in the cylinder area and at the exhaust valve guides. Aluminum, chrome, and iron are from pistons, rings, cylinders, and other steel parts (and molybdenum is also a piston coating). Nickel is from the exhaust valve guides. Silicon could be a factor, if it's abrasive dirt, so check for air intake leaks. On the phone you mentioned replacing the offending cylinder and the air filter, so hopefully there's progress ahead. For now: Caution!

	MI/HR on Oil	44	LINUT /			
	MI/HR on Unit	1,833	UNIT / LOCATION			UNIVERSAL
	Sample Date	2/28/2019	AVERAGES			AVERAGES
NO N	Make Up Oil Added					
18						
E	ALUMINUM	73				12
MIL	CHROMIUM	66				11
~	IRON	240				73
ER	COPPER	23				13
₫	LEAD	7272				5235
(0	TIN	6				2
TS	MOLYBDENUM	30				6
AR	NICKEL	23				11
₫	MANGANESE	2				1
	SILVER	0				0
Z	TITANIUM	0				0
(0	POTASSIUM	1				0
TS	BORON	2				1
Ä	SILICON	59				9
M	SODIUM	1				1
Ш	CALCIUM	10				3
급	MAGNESIUM	2				3
	PHOSPHORUS	103				467
1	ZINC	6				9
	BARIUM	0				0

Values

Should Be*

	SUS Viscosity @ 210°	84.3	86-105			
	cSt Viscosity @ 100°C	16.58	17.0-21.8			
ES	Flashpoint in °F	440	>430			
Ē	Fuel %	< 0.5	<1.0			
H	Antifreeze %	-				
Δ	Water %	0.0	0.0			
RO	Insolubles %	0.5	<0.6			
풉	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE