

Continental GO-300

MAKE/MODEL:

## **Report of the Month**

## This GO-300 has a problem. What's going on? To learn where the elements are coming from, <u>click here</u>.

Phillips XC (A/C) 20W/50

OIL TYPE & GRADE:

UNIT	FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 26 Hours   ADDITIONAL INFO: Cessna C175, Mixed Chrome/Steel								
Unfortunately, this is not a good report for your GO-300. This engine was making pretty steady trends a few years back, but aluminum, chrome, and iron have all skyrocketed in this sample. You mentioned a cylinder that has lower compression, so that will be a good place to start in looking for the problem. There could be other bad cylinders too this is a drastic change and a lot of metal. Silicon is up too it may show some sort of dirt in the system. Let us know what you find outwe're curious. This is a cautionary report.									
	MI/HR on Oil	26		34	23	32	28	32	
	MI/HR on Unit	1,139	UNIT /	1,119	1,090	1,076	1,052	1,031	UNIVERSAL
	Sample Date	10/12/2013		4/27/2013	9/28/2012	3/9/2012	8/27/2011	4/14/2011	AVERAGES
	Make Up Oil Added	2 qts	AVERAGES	2 qts	2 qts	3 qts	3 qts	4 qts	
NO	ALUMINUM	128	15	35	13	16	11	14	15
Ľ	CHROMIUM	70	9	17	7	12	11	16	4
MILL	IRON	115	48	69	45	63	59	65	49
	COPPER	12	7	9	6	7	7	7	12
ER	LEAD	3526	2707	3834	2650	3643	2987	3249	1738
۵.	TIN	0	1	0	0	0	0	0	1
S	MOLYBDENUM	2	2	2	1	2	2	3	3
R	NICKEL	5	3	3	2	3	3	4	2
ΡA	MANGANESE	2	1	1	1	1	1	1	1
z	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	0	0	0
ITS	POTASSIUM	2	1	0	2	0	0	3	1
EN	BORON	0	1	1	1	0	0	1	1
EM	SILICON	25	10	13	10	15	11	10	10
H	SODIUM	1	2	5	2	1	0	1	2
	CALCIUM	7	31	7	6	6	6	5	25
	MAGNESIUM	4	2	3	1	1	2	1	11
	PHOSPHORUS	0	215	0	0		and the second	and the second second	468
	ZINC	1	2	2	2			and -	6
	BARIUM	0	0	0	0	1	1000	and the second	0
Values Should Be*									No. of Concession, Name
	SUS Viscosity @ 210°F	96.6	86-105	100.6	94.6		SHIMAN	service herenan	
PERTIE	cSt Viscosity @ 100°C	19.55	17.0-21.8	20.51	19.07				
	Flashpoint in °F	480	>430	480	470				
	Fuel %	<0.5	<1.0	<0.5	<0.5				
	Antifreeze %			-	-	1			
	Water %	0.0	0.0	0.0	0.0				1
ß	Insolubles %	0.4	<0.6	0.3	0.3			aller and	
٩	TBN							100	S BURN
	TAN					1.19	1991111	THE REAL	11000
	ISO Code								
			* THIS COLUMN	APPLIES ONLY	TO THE CURREN	T SAMPLE			

The owner writes: Your report was right on the money. The number 5 piston broke the top ring and was beginning to come apart. That was the cylinder with the low compression during my annual. I changed out that whole cylinder, piston and all, with a new one from Continental. Thanks for the heads up!