

N2130L

1976 Beech 58TC Baron

Blackstone Laboratories Oil Report LH Engine



MSN: TK-25

Prepared by the worldwide aviation specialists at RidgeAir, Inc.



OIL REPORT

LAB NUMBER: S293177

UNIT ID: N2130L-LH

REPORT DATE: 10/3/2025

CLIENT ID: 128000

CODE: 20/1,193

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental TSIO-520-WB	OIL TYPE & GRADE: Aeroshell 15W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 35 Hours
	ADDITIONAL INFO: Beech 58TC, S/N: 274261-R	

CLIENT	WAYNE DECOSTA	PHONE: (719) 380-8100
	GREAT WEST CONSTRUCTION	FAX: (719) 380-8804
	5935 TEMPLETON GAP RD	ALT PHONE: (719) 499-7581
	COLORADO SPRINGS, CO 80923	EMAIL: wayne@greatwestconstruction.com

COMMENTS	WAYNE: Well, wear metals in the left engine's sample still look better now than they did in the 4/7/25 sample, but notice that copper went up and tin and nickel are still elevated. We are seeing similar results on the right side, so maybe some of the extra metal is just situational in nature. It'd be strange if both engines develop the same issues to a similar extent simultaneously, but it isn't impossible. Copper and tin are from bronze parts like bushings and bearings, and nickel is from the exhaust valve guides. More notes in the right engine's report.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	35	UNIT / LOCATION AVERAGES	35	22			
	MI/HR on Unit	1,475		1,836	1,359			
	Sample Date	9/17/2025		7/18/2025	4/7/2025			
	Make Up Oil Added	5 qts		7 qts				
	ALUMINUM	19	35	26	53			10
	CHROMIUM	9	11	11	9			11
	IRON	102	105	90	106			54
	COPPER	22	21	19	18			6
	LEAD	5760	5011	4357	4037			5163
	TIN	4	4	4	5			1
	MOLYBDENUM	10	13	11	16			6
	NICKEL	56	74	60	78			18
	MANGANESE	1	1	1	2			1
	SILVER	0	0	0	0			0
	TITANIUM	0	1	1	0			0
	POTASSIUM	1	0	0	0			0
	BORON	2	2	1	2			1
	SILICON	12	12	9	12			9
	SODIUM	3	2	2	2			1
	CALCIUM	2	2	2	3			18
	MAGNESIUM	1	1	1	2			1
	PHOSPHORUS	1049	958	972	903			357
	ZINC	4	4	3	4			4
	BARIUM	0	0	0	0			0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	87.7	82-105	87.2	86.1			
	cSt Viscosity @ 100°C	17.42	16.0-21.8	17.31	17.04			
	Flashpoint in °F	505	>440	465	465			
	Fuel %	<0.5	<1.0	<0.5	<0.5			
	Antifreeze %	-		-	-			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.3	<0.6	0.2	0.4			
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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