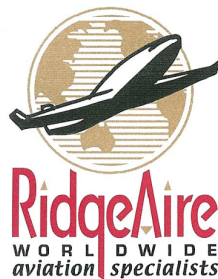


N2130L

1976 Beech 58TC Baron

Blackstone Laboratories Oil Report RH Engine



MSN: TK-25

Prepared by the worldwide aviation specialists at RidgeAire, Inc.



OIL REPORT

LAB NUMBER: S333318 UNIT ID: N2130L-RH
 REPORT DATE: 12/26/2025 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: 32 Hours
	ADDITIONAL INFO: Beech 58TC, S/N: 518132	

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: This engine read high in iron, copper, and nickel with the latter two increasing since last time. Iron comes from steel parts, while copper and nickel show brass/bronze and exhaust valve guide wear. Do everything suggested for the other engine to inspect for issues in this engine. Borescope and check compressions and monitor erratic temps if this Baron has an engine monitor. Watch for metal in the oil filter. Monitor both engines for trouble.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	32	UNIT / LOCATION AVERAGES	35	35	22	UNIVERSAL AVERAGES
	MI/HR on Unit	1,903		1,871	1,836	1,802	
	Sample Date	12/9/2025		9/17/2025	7/18/2025	4/7/2025	
	Make Up Oil Added	1 qt		4 qts	4 qts		
ALUMINUM	18	31	22	30	57	10	
CHROMIUM	11	11	13	10	11	11	
IRON	132	108	99	103	128	54	
COPPER	24	22	23	21	21	6	
LEAD	5805	5069	4946	5783	5182	5164	
TIN	3	4	5	3	4	1	
MOLYBDENUM	12	13	11	12	17	6	
NICKEL	74	74	64	72	116	18	
MANGANESE	1	1	1	1	2	1	
SILVER	0	0	1	0	0	0	
TITANIUM	1	1	1	0	1	0	
POTASSIUM	0	0	0	0	0	0	
BORON	1	2	2	2	2	1	
SILICON	11	11	9	14	13	9	
SODIUM	2	2	3	1	2	1	
CALCIUM	1	2	1	2	2	18	
MAGNESIUM	0	1	1	1	1	1	
PHOSPHORUS	1037	978	1008	944	872	352	
ZINC	5	4	3	4	4	4	
BARIUM	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	84.2	82-105	89.3	89.3	83.6
	cSt Viscosity @ 100°C	16.56	16.0-21.8	17.82	17.82	16.42
	Flashpoint in °F	475	>440	475	465	490
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5
	Antifreeze %	-		-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.4	0.2	0.3
	TBN					
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



OIL REPORT

LAB NUMBER: S293178
 REPORT DATE: 10/3/2025
 CODE: 20/1,193

UNIT ID: N2130L-RH
 CLIENT ID: 128000
 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: 518132	

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: These are the results for the right engine. Wear metals are reading similarly to what we found in the left engine's sample. Copper, tin, and nickel are elevated here. Aluminum (pistons) is also still just high enough to mark on this side. Since both engines are producing about the same amount of metal, it's hard to think that there is a major issue. There appears to be some shared situational/operational factor. Still, look for metal in the oil filter and watch for high/erratic temps and low oil pressure. If all seems well, check back after a similar interval to compare.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	35	UNIT / LOCATION AVERAGES	35	22			UNIVERSAL AVERAGES
	MI/HR on Unit	1,871		1,836	1,802			
	Sample Date	9/17/2025		7/18/2025	4/7/2025			
	Make Up Oil Added	4 qts		4 qts				
ALUMINUM	22	35	30	57				10
CHROMIUM	13	11	10	11				11
IRON	99	105	103	128				54
COPPER	23	21	21	21				6
LEAD	4946	5011	5783	5182				5163
TIN	5	4	3	4				1
MOLYBDENUM	11	13	12	17				6
NICKEL	64	74	72	116				18
MANGANESE	1	1	1	2				1
SILVER	1	0	0	0				0
TITANIUM	1	1	0	1				0
POTASSIUM	0	0	0	0				0
BORON	2	2	2	2				1
SILICON	9	12	14	13				9
SODIUM	3	2	1	2				1
CALCIUM	1	2	2	2				18
MAGNESIUM	1	1	1	1				1
PHOSPHORUS	1008	958	944	872				357
ZINC	3	4	4	4				4
BARIUM	0	0	0	0				0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	89.3	82-105	89.3	83.6		
	cSt Viscosity @ 100°C	17.82	16.0-21.8	17.82	16.42		
	Flashpoint in °F	475	>440	465	490		
	Fuel %	<0.5	<1.0	<0.5	<0.5		
	Antifreeze %	-		-	-		
	Water %	0.0	0.0	0.0	0.0		
	Insolubles %	0.4	<0.6	0.2	0.3		
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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