

N2130L

1976 Beech 58TC Baron

Blackstone Laboratories Oil Report RH Engine



MSN: TK-25

Prepared by the worldwide aviation specialists at RidgeAir, Inc.



OIL REPORT

LAB NUMBER: S434802

UNIT ID: N2130L-RH

REPORT DATE: 7/27/2026

CLIENT ID: 128000

CODE: 20/1,193

PAYMENT: CC: Visa

UNIT	EQUIP. 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: The rate of oil use looks a little better for the right engine, but since more make-up oil was needed than before, we recommend close monitoring. Increased oil consumption can be an issue itself. Iron looks better this time around, but copper and nickel remain high, showing excess wear at bronze parts and exhaust valve guides. Maybe some of the extra metal is operational in nature since both engines are producing extra copper and nickel, but an issue is suspect. Look for metal in the oil filter, watch temps and oil consumption, and check back in 25 hours.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	35	UNIT / LOCATION AVERAGES	32	35	35	22	UNIVERSAL AVERAGES
	MI/HR on Unit	1,938		1,903	1,871	1,836	1,802	
	Sample Date	7/13/2026		12/9/2025	9/17/2025	7/18/2025	4/7/2025	
	Make Up Oil Added	6 qts		1 qt	4 qts	4 qts		
ALUMINUM	16	28	18	22	30	57		10
CHROMIUM	9	11	11	13	10	11		11
IRON	102	106	132	99	103	128		53
COPPER	24	23	24	23	21	21		6
LEAD	5008	4996	5805	4946	5783	5182		5131
TIN	3	4	3	5	3	4		1
MOLYBDENUM	9	12	12	11	12	17		6
NICKEL	61	73	74	64	72	116		18
MANGANESE	1	1	1	1	1	2		1
SILVER	0	0	0	1	0	0		0
TITANIUM	1	1	1	1	0	1		0
POTASSIUM	0	0	0	0	0	0		0
BORON	2	2	1	2	2	2		1
SILICON	10	11	11	9	14	13		9
SODIUM	2	2	2	3	1	2		1
CALCIUM	2	2	1	1	2	2		18
MAGNESIUM	0	1	0	1	1	1		1
PHOSPHORUS	1103	1003	1037	1008	944	872		344
ZINC	5	4	5	3	4	4		3
BARIUM	0	0	0	0	0	0		0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	86.1	82-105	84.2	89.3	89.3	83.6
	cSt Viscosity @ 100°C	17.03	16.0-21.8	16.56	17.82	17.82	16.42
	Flashpoint in °F	505	>440	475	475	465	490
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-		-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.4	0.2	0.3
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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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

FUEL TYPE: Gasoline (Leaded)

ADDITIONAL INFO: Beech 58TC, S/N: 518132

OIL TYPE & GRADE: Aeroshell 15W/50

OIL USE INTERVAL: 32 Hours

CLIENT

WAYNE DECOSTA

GREAT WEST CONSTRUCTION

5935 TEMPLETON GAP RD

COLORADO SPRINGS, CO 80923

PHONE: (719) 380-8100

FAX: (719) 380-8804

ALT PHONE: (719) 499-7581

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		22	30	57			
	CHROMIUM	11		13	10	11			
	IRON	132		99	103	128			
	COPPER	24		23	21	21			
	LEAD	5805		4946	5783	5182			
	TIN	3		5	3	4			
	MOLYBDENUM	12		11	12	17			
	NICKEL	74		64	72	116			
	MANGANESE	1		1	1	2			
	SILVER	0		1	0	0			
	TITANIUM	1		1	0	1			
	POTASSIUM	0		0	0	0			
	BORON	1		2	2	2			
	SILICON	11		9	14	13			
	SODIUM	2		3	1	2			
	CALCIUM	1		1	2	2			
	MAGNESIUM	0		1	1	1			
	PHOSPHORUS	1037		1008	944	872			
	ZINC	5		3	4	4			
	BARIUM	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							

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OIL REPORT

LAB NUMBER: S293178

UNIT ID: N2130L-RH

REPORT DATE: 10/3/2025

CLIENT ID: 128000

CODE: 20/1,193

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Continental TSIO-520-WB

FUEL TYPE: Gasoline (Leaded)

ADDITIONAL INFO: Beech 58TC, S/N: 518132

OIL TYPE & GRADE: Aeroshell 15W/50

OIL USE INTERVAL: 35 Hours

CLIENT

WAYNE DECOSTA

GREAT WEST CONSTRUCTION

5935 TEMPLETON GAP RD

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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		30	57				
	CHROMIUM	13		10	11				
	IRON	99		103	128				
	COPPER	23		21	21				
	LEAD	4946		5783	5182				
ELEMENTS IN PARTS PER MILLION	TIN	5	UNIT / LOCATION AVERAGES	3	4				UNIVERSAL AVERAGES
	MOLYBDENUM	11		12	17				
	NICKEL	64		72	116				
	MANGANESE	1		1	2				
	SILVER	1		0	0				
	TITANIUM	1		0	1				
	POTASSIUM	0		0	0				
	BORON	2		2	2				
	SILICON	9		14	13				
	SODIUM	3		1	2				
	CALCIUM	1		2	2				
	MAGNESIUM	1		1	1				
	PHOSPHORUS	1008		944	872				
	ZINC	3		4	4				
	BARIUM	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							

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