



# OIL REPORT

LAB NUMBER: S272593

UNIT ID: N32863-LH

REPORT DATE: 8/22/2025

CLIENT ID: 228435

CODE: 63/1,193

PAYMENT: CC: Visa

**UNIT**

MAKE/MODEL: Continental TSIO-360-E  
FUEL TYPE: Gasoline (Leaded)  
ADDITIONAL INFO: Piper PA34-200T, S/N: 303053

OIL TYPE & GRADE: Phillips XC (A/C) 20W/50  
OIL USE INTERVAL: 51 Hours

**CLIENT**

TRAVIS PULLEY  
DIRT LANDING LLC  
3231 W 1100 N  
NEW RICHMOND, IN 47967

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**COMMENTS**

TRAVIS: Chrome, iron, copper, and nickel are high this time. Chrome is typically from rings, iron is from steel parts like cylinders and shafts, and copper is from brass/bronze parts. Nickel typically shows exhaust valve guide wear. Chrome, iron, and nickel (together) could show wear in the exhaust valve guide area: the valve guide is nickel, and the valve is chrome-plated steel. Silicon is high too, so make sure the air filter/intake plumbing are fine. Non-factory jugs might explain chrome and/or nickel if any are on board. Watch temps, and make note of roughness or erratic EGTs.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51	UNIT / LOCATION AVERAGES	44	13				
	MI/HR on Unit	592		1,650	1,600				
	Sample Date	8/8/2025		9/14/2024	5/26/2024				
	Make Up Oil Added	2 qts		3 qts	0 qts				
	ALUMINUM	13		8	9	7			7
	CHROMIUM	26		13	16	10			11
	IRON	118		94	78	109			49
	COPPER	20		14	16	11			6
	LEAD	5617		2755	4001	1508			3524
	TIN	1		3	1	4			1
	MOLYBDENUM	5		3	3	2			3
	NICKEL	21		6	9	2			10
	MANGANESE	2		2	1	2			1
	SILVER	0		0	0	0			0
	TITANIUM	1		0	0	0			0
	POTASSIUM	1		1	1	0			0
	BORON	1		1	1	1			1
	SILICON	20		21	23	18			7
	SODIUM	2		3	2	3			1
	CALCIUM	3		4	2	6			6
	MAGNESIUM	11		8	8	7			3
	PHOSPHORUS	10		149	47	250			425
	ZINC	12		11	9	12			5
	BARIUM	0		0	0	0			0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	95.3	86-105	90.4	84.4			
	cSt Viscosity @ 100°C	19.25	17.0-21.8	18.07	16.61			
	Flashpoint in °F	490	>430	465	450			
	Fuel %	<0.5	<1.0	<0.5	<0.5			
	Antifreeze %	-		-	-			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.4	<0.6	0.3	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](http://www.blackstone-labs.com)



## OIL REPORT

LAB NUMBER: S273928

UNIT ID: N32863-RH

REPORT DATE: 8/26/2025

CLIENT ID: 228435

CODE: 63/1,193

PAYMENT: CC: Visa

**UNIT**

MAKE/MODEL: Continental LTSIO-360-E1

FUEL TYPE: Gasoline (Leaded)

ADDITIONAL INFO: Piper PA34-200T, S/N: 225502-R

OIL TYPE &amp; GRADE: Phillips XC (A/C) 20W/50

OIL USE INTERVAL: 51 Hours

**CLIENT**TRAVIS PULLEY  
DIRT LANDING LLC  
3231 W 1100 N  
NEW RICHMOND, IN 47967PHONE: (765) 376-3799  
FAX:  
ALT PHONE:  
EMAIL: tpulley81@gmail.com, dirtlandingllc@gmail.com**COMMENTS**

TRAVIS: This right engine is made more metal this run, but not as much as its twin over on the left. The only element high enough to mark in this sample is copper, from bronze parts, and although it has increased, we're not convinced it shows a problem at just 13 ppm. That's still not a lot of metal in the grand scheme of things, but we'll keep an eye on it. Silicon dropped enough to rule out excess dirt infiltration, and no problems with the oil's physical properties were found. Check back to continue monitoring wear trends.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51	UNIT / LOCATION AVERAGES	44	13				
	MI/HR on Unit	4,056		1,650	1,600				
	Sample Date	8/8/2025		9/14/2024	5/26/2024				
	Make Up Oil Added	1 qt		2 qts	0 qts				
	ALUMINUM	11		8	7				6
	CHROMIUM	24		16	15				13
	IRON	93		91	66	113			64
	COPPER	13		9	9	5			7
	LEAD	5111		3534	4028	1462			6622
	TIN	1		1	1	2			1
	MOLYBDENUM	4		3	2	2			6
	NICKEL	18		9	7	2			15
	MANGANESE	2		2	1	2			1
	SILVER	0		0	0	0			0
	TITANIUM	0		0	0	0			0
	POTASSIUM	0		0	1	0			0
	BORON	2		1	1	1			1
	SILICON	17		19	22	18			14
	SODIUM	2		2	1	2			1
	CALCIUM	2		4	2	7			3
	MAGNESIUM	9		7	6	5			5
	PHOSPHORUS	9		99	49	239			151
	ZINC	9		10	9	13			5
	BARIUM	0		0	0	0			0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	94.0	86-105	86.9	84.7			
	cSt Viscosity @ 100°C	18.94	17.0-21.8	17.23	16.68			
	Flashpoint in °F	455	>430	455	455			
	Fuel %	<0.5	<1.0	<0.5	<0.5			
	Antifreeze %	-		-	-			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.4	<0.6	0.4	0.3			
	TBN							
	TAN							
	ISO Code							

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