



**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 TSIQ-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
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CLIENT	TRAVIS PULLEY DIRT LANDING LLC 3231 W 1100 N NEW RICHMOND, IN 47967	PHONE: (765) 376-3799 FAX: ALT PHONE: EMAIL: tpulley81@gmail.com, dirtlandingllc@gmail.com
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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 pluming 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.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51	UNIT / LOCATION AVERAGES	44	13					UNIVERSAL AVERAGES
	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 & GRADE: Phillips XC (A/C) 20W/50 OIL USE INTERVAL: 51 Hours
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CLIENT	TRAVIS PULLEY DIRT LANDING LLC 3231 W 1100 N NEW RICHMOND, IN 47967	PHONE: (765) 376-3799 FAX: ALT PHONE: EMAIL: tpulley81@gmail.com, dirtlandingllc@gmail.com
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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.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51	UNIT / LOCATION AVERAGES	44	13					UNIVERSAL AVERAGES
	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	7					6
CHROMIUM	24	16		15	10					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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