



OIL REPORT

LAB NUMBER: S074084

UNIT ID: N32863-LH

REPORT DATE: 6/24/2024

CLIENT ID: 228435

CODE: 63/88

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Continental O-360
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: Piper PA34-200T

OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
OIL USE INTERVAL: 13 Hours

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

COMMENTS

TRAVIS: Well, iron and silicon read high in the report for N32863's left engine too, and at similar levels even. With that, we're more inclined to believe that there's a shared situational/operational factor at play here. Maybe both engines recently had work done, for instance. Hard use could also partly explain the high iron readings. Do note that tin read a bit high in this sample, and copper was higher on this side too/on the upper end of averages, so we marked it. That could show some extra bronze wear -- monitor for metal in both filters as a precaution. A low viscosity is okay.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	13	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,600							
	Sample Date	5/26/2024							
	Make Up Oil Added	0 qts							
	ALUMINUM	7		7					9
	CHROMIUM	10		10					7
	IRON	109		111					39
	COPPER	11		8					6
	LEAD	1508		1485					3365
	TIN	4		3					1
	MOLYBDENUM	2		2					2
	NICKEL	2		2					7
	MANGANESE	2		2					0
	SILVER	0		0					0
	TITANIUM	0		0					0
	POTASSIUM	0		0					1
	BORON	1		1					0
	SILICON	18		18					9
	SODIUM	3		3					0
	CALCIUM	6		7					19
	MAGNESIUM	7		6					1
	PHOSPHORUS	250		245					354
	ZINC	12		13					6
	BARIUM	0		0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	84.4	86-105					
	cSt Viscosity @ 100°C	16.61	17.0-21.8					
	Flashpoint in °F	450	>430					
	Fuel %	<0.5	<1.0					
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	0.3	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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OIL REPORT

LAB NUMBER: S072238

UNIT ID: N32863-RH

REPORT DATE: 6/19/2024

CLIENT ID: 228435

CODE: 63/88

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Continental O-360
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: Piper PA34-200T

OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
OIL USE INTERVAL: 13 Hours

CLIENT

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

PHONE: (765) 376-3799
FAX:
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COMMENTS

TRAVIS: Iron and silicon are the standout elements in the right engine's first report. These elements are high compared to universal averages on the far right, which are based on the O-360 after about 45 hours on the oil. The fact that iron is much higher than average after a shorter run could point to an issue with a steel part, perhaps cam spalling. Silicon may indicate dirt. Note if the engine was worked on recently, some of this could be wear-in and sealers. Check air filtration and inspect the oil filter for metal. The left engine's results shouldn't be too far behind.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	13	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,600							
	Sample Date	5/26/2024							
	Make Up Oil Added	0 qts							
	ALUMINUM	7		7					9
	CHROMIUM	10		10					7
	IRON	113		113					39
	COPPER	5		5					6
	LEAD	1462		1462					3365
	TIN	2		2					1
	MOLYBDENUM	2		2					2
	NICKEL	2		2					7
	MANGANESE	2		2					0
	SILVER	0		0					0
	TITANIUM	0		0					0
	POTASSIUM	0		0					1
	BORON	1		1					0
	SILICON	18		18					9
	SODIUM	2		2					0
	CALCIUM	7		7					19
	MAGNESIUM	5		5					1
	PHOSPHORUS	239		239					354
	ZINC	13		13					6
	BARIUM	0		0					0

Values
Should Be*

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

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