

ENGINE LOG BOOK



Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at:
1-888-826-5465 Toll free in the United States or
1-251-436-8299 International

Engine Returns

Return engines for core credit with this log book to:

Continental Motors, Inc.
2039 Broad Street
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:

Continental Motors, Inc.
Factory Service Center
8600 County Road 32
Fairhope, Alabama 36532 USA

**USE ONLY FUEL SPECIFIED IN OPERATOR'S
MANUAL OR TYPE CERTIFICATE DATA SHEET
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

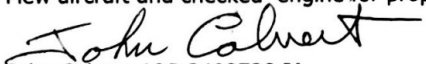
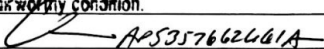
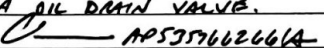
Printed:03/13/2015

Test Date:03/12/2015

This engine model I0550B93B, serial number 1011891 was rebuilt by Continental Motors Inc, in accordance with approved design data and the applicable requirements of 14 CFR, Part 21 and 43 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.


CONTINENTAL MOTORS, INC.

HOBBS

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
					6-2-2015 Hobbs 410 ETT 00 AFTT 9729.32 Installed this engine in aircraft Beech A36 serial # E384. Serviced engine with 12 quarts of Phillips 66 20W50 mineral oil. Installed new exhaust system. Ran engine and checked for leaks and proper operation of magnetos, propeller and fuel flow. Set engine idle setting. Flew aircraft and checked engine for proper operation.  John Calvert A&P 3493738 IA
July 7, 2015	460	Hobbs			Changed oil cleaned filter and serviced with 12 qts. of XC 20W50 oil. Ran engine and checked for leaks. John Calvert A&P 3493738 IA.
10-8-2015	95	4	505	4	WARMED ENGINE, DRAINED OIL. INSPECTED, CLEANED AND RESAFETED OIL SCREEN, CHECK O.K. SERVICED ENGINE WITH 12 QTS PHILLIPS 20W50 X/C OIL. CYLINDER COMPRESSIONS: 1- 72/80, 2- 72/80, 3- 70/80, 4- 70/80, 5- 73/80, 6- 71/80. CLEANED AND GAPPED SPARK PLUGS, CHECKED MAG TIMING. ADJUSTED IDLE RPM AND OIL PRESSURE. I Certify that this <u>ENGINE</u> has been inspected in accordance with AD <u>ANNUAL</u> inspection and was determined to be in an airworthy condition. 
3-16-2016	194	5	554	5	WARMED ENGINE, DRAINED OIL. SERVICED ENGINE WITH 10 QTS PHILLIPS 20W50 X/C OIL. INSTALLED NEW SAF-AIR F02 FAP/PMA OIL DRAIN VALVE. 

H07009
A00B5TIME

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					
5-24-16	191	0	001	0	<p>WARMED ENGINE, DRAINED OIL. INSPECTED, CLEANED AND RESEATED OIL FILTER ELEMENT, CHECK O.K. SERVICED ENGINE WITH 11 QTS PHILLIPS 20W50 X/C OIL. CYLINDER COMPRESSIONS: 1-7¹/₈₀, 2-7³/₈₀, 3-7¹/₈₀, 4-7³/₈₀, 5-6⁸/₈₀, 6-7¹/₈₀. CHECKED MAG TIMING, READJUSTED RH MAG TO 22° BTDC. INSTALLED (12) NEW TEMPEST VRH32E SPARK PLUGS.</p> <p>I Certify that this <u>ENGINE</u> has been inspected in accordance with <u>A 100 HR</u> inspection and was determined to be in an <u>airworthy</u> condition.</p> <p>AP5357662661A</p>
7-15-16	251	6	061	6	<p>WARMED ENGINE, DRAINED OIL. INSPECTED, CLEANED AND RESEATED OIL SCREEN, SMALL AMOUNT OF ALUMINUM NOTED, WILL RECHECK. SERVICED ENGINE WITH 11 QTS PHILLIPS 20W50 OIL.</p> <p>AP5357662661A</p>
8-09-16	286	9	696	9	<p>WARMED ENGINE, DRAINED OIL. INSPECTED, CLEANED AND RESEATED OIL SCREEN, CHECK O.K. OIL ANALYSIS DONE ON OIL SAMPLE FROM LAST 086 CHANGE INSPECTION SHOWS ALL LEVELS WITHIN NORMAL LIMITS. SERVICED ENGINE WITH 11 QTS PHILLIPS 20W50 OIL. CYLINDER COMPRESSIONS: 1-7¹/₈₀, 2-7⁵/₈₀, 3-7⁶/₈₀, 4-7⁶/₈₀, 5-7⁴/₈₀, 6-7²/₈₀. CLEANED AND GAPPED SPARK PLUGS, CHECKED MAG TIMING. ADJUSTED LH AND RH MAGS TO 22° BTDC.</p> <p>I Certify that this <u>ENGINE</u> has been inspected ^{ADJUSTED #3 INTAKE PIPE} in accordance with <u>A 100 HR</u> inspection and was ^{WAS WITH} determined to be in an <u>airworthy</u> condition.</p> <p>AP5357662661A</p>

HOBBS TIME

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					
8-28-16	306	5	—	716.5	<p>WARMED ENGINE, INSTALLED OIL FILTER ELEMENT, CLEANED AND REASSEMBLED, CHECK O.K. CYL. INDOOR COMPRESSIONS: 1- 75/80, 2- 76/80, 3- 74/80, 4- 74/80, 5- 77/80, 6- 74/80. CLEANED AND GAP- PED SPARK PLUGS, CHECKED MAG TIMING.</p> <p>I Certify that this ENGINE has been inspected in accordance with <u>AN ANNUAL</u> inspection and was determined to be in an airworthy condition.</p> <p style="text-align: right;"><i>Lennie John Guerin</i> AP535766266/A</p>

N63TC
Tach: 816.44

EGA Aviation Inc.
2642 Airport Drive
N. Las Vegas, NV. 89032
(702) 683-7507
Engine Logbook
WO# 2612

05 Jul 2017
Total TI

Changed oil and oil filter with 12qts. PHILLIPS XC 20W50. Cut prior filter for insp. with no defects noted. Post maint. run up indicates all op,s normal and no leaks noted.

Lennie John Guerin
Lennie John Guerin 21483690 A/P IA

Aircraft returned to service

3486

EGA Aviation, Inc.
2642 Airport Dr.
N. Las Vegas, NV 89032
(702) 683-7507
ENGINE LOGBOOK
WO#2824

1 Nov. 2017
TTSO:0348.1




N63TC
Tach:758.6

C/W ANNUAL insp. IAW BEECHCRAFT A-36 MM and checklist. Comp. check as follows: #1 72/80 #2 70/80 #3 70/80 #4 72/80 #5 70/80 #6 70/80. No oil change due to low hours. Cleaned, insp, gapped and checked spark plugs. Check mag. timing and found within limits IAW engine data plate. Reinstalled spark plugs with new gaskets and torqued IAW MM. Checked all engine controls for proper travel and lubed. Insp. fuel inlet screen with no defects noted. Pressure check exhaust system with no defects noted. Checked all valve cover mounting hardware and tightened as needed. Checked all tightened as needed all intake and exhaust manifold mounting hardware. Installed new engine inlet air filter. Installed all (6) EGT probes to exhaust manifold IAW JPI installation instructions from prior JPI unit installation. All AD,s checked and C/ Wed to date. Post maint. run up indicate all op,s normal and no leaks noted at this time.
I certify this ENGINE has been insp. IAW ANNUAL insp. and has been determined to be in an airworthy condition.



Lennie John Guerin 21483690 A/P IA

Lennie John Guerin

HOBBS

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
					<p>EGA Aviation Inc. 2642 Airport Drive N. Las Vegas, NV. 89032 (702) 683-7507 Engine Logbook WO# 3442</p> <p>12 Jul 2018 Total Ti</p> <p>N63TC Tach: 860.31</p> <p>Drained oil. Removed and replaced oil filter P/N CH48109-1 . Cut prior filter for inspection with no defects noted. Filled engine with 12 quarts of Aeroshell W100 PLUS . Performed post maintenance run-up. Leak check good. All maintenance performed IAW Beech Bonanza A36 Maintenance Manual . Aircraft returned to service.</p> <p>Michael Lopez A/P 4110948 </p>
					<p>EGA Aviation, Inc. 2642 Airport Dr. N. Las Vegas, NV 89032 (702) 683-7507 Engine Logbook WO# 3808</p> <p>15 Jan 2019 TTSO:411.59</p> <p>N63TC Tach:0874.0</p> <p>C/W Annual Inspection IAW Beechcraft A36 MM and checklist. Comp check As follows: #1 76/80 #2 70/80 #3 78/80 #4 76/80 #5 72/80 #6 76/80 No oil change due to low hours. Checked mag timing and found within Data plate specs. Installed 12 new Champion RHB325 fine wire spark Plugs with new gaskets torqued IAW MM. Checked all engine controls for proper travel and operation. Inspected fuel inlet screen with no defects noted. Pressure checked exhaust system with no defects noted. Checked and tightened as needed all intake & exhaust mounting hardware. Inspected and cleaned engine inlet air filter element. Adjusted gear warning switch. Removed and replaced leaking prop seal P/N 641250 All applicable AD's Checked & C/W to date. Post maint. run up indicates all operations normal with no leaks noted.</p> <p>I certify this engine has been inspected IAW an Annual Inspection and has been determined to be in an airworthy condition.  A+P1807305IA</p>
					<p>EGA Aviation, Inc. 2642 Airport Drive. N. Las Vegas, NV 89032 (702) 683-7507 Engine Logbook WO# 4202</p> <p>19 June 2019</p> <p>N63TC Tach: 900.81</p> <p>Drained oil, and serviced engine with 10Qts of Aeroshell 100 Plus. Removed, cut and inspected filter, no metal or contaminants found. Replaced, torqued and safety wired new oil filter (PN: CH48109-1). Prepared oil analysis sample for owner.</p> <p>I approve this aircraft for return to service.</p> <p>Jose Valverde A/P 4154181 </p>

HOBBS

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					
					<p>EGA Aviation, Inc. 2642 Airport Drive. N. Las Vegas, NV 89032 (702) 683-7507 Engine Logbook WO# 4224</p> <p>15 Oct 2019</p> <p>N63TC Tach: 902.0</p> <p>Drained engine oil and serviced with 10 QT of Aeroshell 100 plus. Removed, cut and inspected filter, no metal or contaminants found. Replaced, torqued and safety wired new oil filter (PN: CH48109-1) IAW Beechcraft A36 MM. Ran engine for leak check. No leaks found. Removed and sent engine driven fuel pump to Mikes Fuel Metering for inspection. Reinstalled pump to engine (P/N: R646212-5A2; S/n: B15BA225R). Replaced fuel hose (P/N: 156001-450110) and checked for leaks.</p> <p>I approve this aircraft for return to service.</p> <p style="text-align: right;">Jose Valverde A/P 4154181</p> 
					<p>EGA Aviation, Inc. 2642 Airport Dr. N. Las Vegas, Nv. 89032 (702) 683-7507 Engine Logbook WO# 4307</p> <p>26 Dec 2019 TTSO:0392.2</p> <p>N63TC Hobbs: 0795.9</p> <p>Removed engine from aircraft N63TC S/N: E-384 on this date due to prop strike IAW Beechcraft A36 MM.</p> <p style="text-align: right;">Jose Valverde A/P 4154181</p> 



WESTERN Skyways INC.

GOLD SEAL AIRCRAFT ENGINES

21 Creative Place Montrose, CO 81401 CRS # WS9R575J

Engine Model: Cont. IO-550-B


Serial Number: 1011891
HOBBS 795.9

Time: **Hobbs:0795.9**

Work Order: W056261 Date: 3 March 2020

This engine was disassembled and inspected for a prop strike inspection per Continental Publication M-0. Crankcase M/N: R15BA111 was fluorescent particle inspected. VAR Crankshaft S/N: N07CA165, was visual, dimensional, magnetic particle and ultrasonic inspected per **MSB96-10B**. Installed REBUILT magnetos P/N: 10-500556-1 S/N: D191A079R and D191A367R. See Continental Motors Inc. 8130-3, form tracking number 560453 dated 31 Oct 2019 and 8130-3, form tracking number 557632 dated 23 Sept 2019. Woodward prop governor, P/N: D210680, S/N: 1573452Y was OVERHAULED by Southwest Aero Inc. under their W/O 30854 dated 30 Jan 2020. Installed serviceable oil filler adapter 649407, reference Western Skyways 8130-3 form tracking number W056400-602-38 dated 6 Feb 2020. Installed serviceable induction elbow 629325, reference Western Skyways 8130-3 form tracking number W056400-602-98 dated 14 Feb 2020. Starter Adapter was overhauled. Engine was reassembled using new rod and main bearings, new rod bolts and nuts, new crankshaft & counterweight bushings, pins, plates, and snap rings, new gaskets and seals as necessary. Engine was run in a test cell for leak and operations check. Assembled I/A/W Western Skyways, Inc. Repair Specification WS-100 "Use and Application of Hydraulic Sealant" dated 11/10/2010, Continental Motors, Inc. Overhaul Manual M-16 and applicable service publications.

The engine and/or component identified above was repaired and inspected IAW current FAA Regulations and found Airworthy for return to service. Pertinent details of this repair are on file at this Repair Station under above work order.

Signed: 
Ryan Dickerson
CRS# WS9R575J

Form 201E

Engine Service and Maintenance Record

Date

HOBBS
Total Time

Time Since Last Overhaul

EGA Aviation, Inc.
2642 Airport Dr.
N. Las Vegas, NV 89032
(702) 683-7507
Engine Logbook

HOBBS 795.9
TTSO 392.2

part removal and worthiness Directives, illetins

Carried forward -

N63TC
Tach: ~~000000~~ IO-55-B WO# 4384 S/N# 1011891 TTSO:TTSO:0392.2
C/W ANNUAL inspection IAW Beechcraft A36 checklist and MM. Removed current TCM IO-550-B S/N 1011891 engine due to prop strike and for IRAN to be preformed by WESTERN SKYWAYS, INC. under WO# W056261. WESTERN SKYWAYS, INC. logbook entry installed into engine logs for details for IRAN and repairs made. TTSO carried forward. Installed engine using current engine LORD mounts and torqued IAW Beechcraft MM. Installed overhauled prop gov. by SOUTHWEST AERO, INC. Model D210680 S/N 1573452Y under WO# 30854 and installed with new gasket and locking hardware. All engine controls lubed, installed, rigged and control travels checked with no defects noted at his time. Inspected, cleaned and reinstalled engine inlet air filter. Installed new exhaust mufflers from KNISLEY WELDING, INC. under WO# 165277 with P/N, s L/H K701-04 S/N 276273 and R/H K701-05 S/N 276758. Mufflers installed with new BLO-Proof gaskets and locking hardware. Installed new tailpipes from KNISLEY WELDING, INC. under WO# 164928 with P/N, s L/H K35-950005-11 S/N 274868 and R/H K35-950005-9 S/N 271277. Install with new hardware, springs and locking hardware. Serviced oil system with 12 qts. AEROSHELL 100+. Current oil filter CH48109-1 from WESTERN SKYWAYS installed. Install alternator with new gasket and locking hardware. Installed wiring and secured. Completed prior partial installation of D, Shannon engine baffle system under STC#SA2200SW Rev. E, F dated 14 Sept. 2015, rev. C dated 2 July 2015, Rev. B Dated 2 July 2015, Rev. D dated 14 Oct. 2015. No eight and balance change. There was no prior Form 337 indicating partial installation. A form 337 will provided due to completion of installation of the baffle STC. Pressure checked exhaust system with no defects or leaks noted at this time. Installed, secured, and pressure checked all fuel hoses and lines with no defects or leaks noted at this time. Checked spark plug torqued and reinstalled ignition lead "B" nuts and secured. All AD, s checked and C/Wed to date. 1st post maintenance run-up indicates good mag drop and no leaks noted, requires idle mixture adjustment. Adjusted idle mixture and idle RPM at 2nd run up with no other defects or leaks noted. Cycled prop (3) times with no defects. All engine gauges within normal ranges IAW MM and POH.

I certify this ENGINE has been inspected IAW a ANNUAL inspection and has been determined to be in an airworthy condition.

Lennie John Guerin 21483690 A/P IA
Lennie John Guerin

EGA Aviation, Inc.
2642 Airport Drive.
N. Las Vegas, NV 89032
(702) 683-7507
Engine Logbook
WO# 4487

9 Jul 2020

N63TC
Tach: ~~000000~~ 814.0
HOBBS

Removed L/H magneto (P/N: BL500556-1, S/N D191A079R) and replaced with overhauled part (P/N: BL500556-1, S/N: D20FA136R) with new gasket IAW Beech A36 MM. Timed mag to engine IAW engine data plate. Ran engine and preformed mag drop IAW POH. No leaks or other defects noted.

I approve this engine for return to service.

Jose Valverde A/P 4154181

EGA Aviation, Inc.
2642 Airport Drive.
N. Las Vegas, NV 89032
(702) 683-7507
Engine Logbook
WO# 4513

29 Jul 2020

N63TC
Tach: ~~000000~~ 817.2
HOBBS

Removed RH magneto (P/N: BL500556-1, S/N D191A367R) and replaced with rebuilt part (P/N: BL500556-1, S/N: D20EA179R) with new hardware kit, locking hardware and gasket IAW Beech A36 MM. Timed mag to engine IAW engine data plate. Ran engine and preformed mag drop test IAW POH. Ops good no leaks or other defects.

I approve this airframe for return to service.

Jose Valverde A/P 4154181



OIL REPORT

LAB NUMBER: N32846
 REPORT DATE: 4/20/2021
 CODE: 20/68

UNIT ID: N63TC
 CLIENT ID: 54603
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental IO-550-B	OIL TYPE & GRADE: Aeroshell W100 (AD)
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 62 Hours
	ADDITIONAL INFO: Beech A36B, S/N 1011891	

CLIENT	BOB / LEN	PHONE: (702) 683-7507	<i>4/5/21 TACH 966.0</i>
	EGA AVIATION	FAX:	
	2642 AIRPORT DR	ALT PHONE: (302) 349-3491	
	NORTH LAS VEGAS, NV 89032	EMAIL: egaaviation@gmail.com	

COMMENTS
 BOB/LEN: We aren't surprised wear metals are higher in this sample, given the longer interval and this is the first oil change since a prop strike and IRAN. Anytime the engine is opened and put back together we tend to see metals go up from parts getting reacquainted. Most metals look okay, but copper, tin, and nickel will be on our watch list going forward. If those higher metals are higher due to wear-in, we should see progress next time. Silicon likely shows sealers/tubes. If the oil filter is clean and the engine runs well, just check back at the next service to monitor trends.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	62	UNIT / LOCATION AVERAGES	41	48	UNIVERSAL AVERAGES	
	MI/HR on Unit	340			300		
	Sample Date	4/5/2021		8/5/2019	6/28/2017		
	Make Up Oil Added	2 qts					
	ALUMINUM ✓	13	10	8	12		8
	CHROMIUM	12	13	8	17		7
	IRON	69	85	50	119		41
	COPPER ✓	25	7	5	9		5
	LEAD	5547	7698	5276	10120		4662
	TIN ✓	7	2	1	2		1
	MOLYBDENUM	4	5	4	6		4
	NICKEL ✓	22	19	16	21		9
	MANGANESE	2	2	1	2		1
	SILVER	0	0	0	0		0
	TITANIUM	1	1	0	1		0
	POTASSIUM	0	1	0	1		1
	BORON	0	0	0	0		1
	SILICON ✓	25	8	6	10		7
	SODIUM	19	1	0	1		1
	CALCIUM	26	5	3	7		26
	MAGNESIUM	2	1	1	0		1
	PHOSPHORUS ✓	1144	576	1152	0		514
	ZINC ✓	12	4	5	2		4
	BARIUM	0	0	0	0		0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	96.2	86-105	87.2	95.2
	cSt Viscosity @ 100°C	19.45	17.0-21.8	17.29	19.22
	Flashpoint in °F	475	>460	460	430
	Fuel %	<0.5	<1.0	TR	TR
	Antifreeze %	-	-	-	-
	Water %	0.0	0.0	0.0	0.0
	Insolubles %	0.4	<0.6	0.3	0.5
	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: L48840
 REPORT DATE: 8/21/2019
 CODE: 20/32

UNIT ID: N63TC
 CLIENT ID: 54603
 PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Continental IO-520
 FUEL TYPE: Gasoline (Leaded)
 ADDITIONAL INFO: Beech A36B, S/N 1011891, Screen

OIL TYPE & GRADE: Aeroshell W100 Plus (AD)
 OIL USE INTERVAL: 41 Hours

CLIENT

BOB / LEN
 EGA AVIATION
 2642 AIRPORT DR
 NORTH LAS VEGAS, NV 89032

PHONE: (702) 683-7507
 FAX:
 ALT PHONE: (302) 349-3491
 EMAIL: egaaviation@gmail.com

*OIL SAMPLE
 4/5/21
 TACH 966.*

COMMENTS

BOB/LEN: We have this engine logged as an IO-520 based on the last sample, but this sample's paperwork listed an IO-550-B for the engine type. Let us know if we should change the averages. A simple comparison between this sample and the last shows a lot of improvement for this engine. Iron (steel) and nickel (exhaust valve guides) especially, since both dropped enough to be considered average for either engine type. Lead from blow-by looks much better, too. A trace of fuel showed up again, which is generally from normal use, not a fuel system problem. Good report!

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	41	UNIT / LOCATION AVERAGES	48				UNIVERSAL AVERAGES
MI/HR on Unit			300				
Sample Date	8/5/2019		6/28/2017				
Make Up Oil Added							
ALUMINUM	8	10	12				11
CHROMIUM	8	13	17				9
IRON	50	85	119				46
COPPER	5	7	9				7
LEAD	5276	7695	10120				4548
TIN	1	2	2				2
MOLYBDENUM	4	5	6				4
NICKEL	16	19	21				8
MANGANESE	1	2	2				1
SILVER	0	0	0				0
TITANIUM	0	1	1				0
POTASSIUM	0	1	1				1
BORON	0	0	0				0
SILICON	6	8	10				8
SODIUM	0	1	1				1
CALCIUM	3	5	7				19
MAGNESIUM	1	1	0				1
PHOSPHORUS	1152	576	0				520
ZINC	5	4	2				7
BARIUM	0	0	0				0

Values Should Be*

PROPERTIES

SUS Viscosity @ 210°F	87.2	88-100	95.2				
cSt Viscosity @ 100°C	17.29	17.0-21.0	19.22				
Flashpoint in °F	460	>460	430				
Fuel %	TR	<1.0	TR				
Antifreeze %	-	-	-				
Water %	0.0	0.0	0.0				
Insolubles %	0.3	<0.5	0.5				
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: J45500 UNIT ID: N63TC
 REPORT DATE: 7/13/2017 CLIENT ID: 54603
 CODE: 20/32 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Continental IO-520	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 48 Hours
	ADDITIONAL INFO: Beech A36, Screen	

CLIENT	BOB/LEN	PHONE: (702) 683-7507
	EGA AVIATION	FAX:
	2634 AIRPORT DR	ALT PHONE: (302) 349-3491
	NORTH LAS VEGAS, NV 89032	EMAIL: egaaviation@gmail.com

COMMENTS
 BOB/LEN: Universal averages show typical wear for an IO-520 after ~35 hours on the oil. Iron, lead, and nickel are elevated in this sample. Some of the metal is from the oil seeing more use than the average interval, but not quite all of it. Nickel should still read close to average even on longer runs, and it could show exhaust valve guide wear. Nickel cylinders are another possible source, so let us know the cylinders types if you can. Monitor for rough starts/operation, and check the oil screen for metal. If you're not having problems, check back in 25 hours to monitor.

ELEMENTS IN PARTS PER MILLION	MSHR per Unit	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	Sample Date						
	300	6/28/2017					
ALUMINUM	12	12					
CHROMIUM	17	17					
IRON	119	119					
COPPER	9	9					
LEAD	10120	10120					
TIN	2	2					
MOLYBDENUM	6	6					
NICKEL	21	21					
MANGANESE	2	2					
SILVER	0	0					
TITANIUM	1	1					
POTASSIUM	1	1					
BORON	0	0					
SILICON	10	16					
SODIUM	1	1					
CALCIUM	7	7					
MAGNESIUM	0	0					
PHOSPHORUS	0	0					
ZINC	2	2					
BARIIUM	0	0					

Values Should Be*

PROPERTIES	Value	Unit / Location				
SUS Viscosity @ 210°F	95.2					
cSt Viscosity @ 100°C	19.22	17.0-21.0				
Flashpoint in °F	430	430				
Fuel %	TR	1.0				
Antifreeze %	-					
Water %	0.0	0.0				
Insolubles %	0.5					
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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OIL REPORT

LAB NUMBER: J45500 UNIT ID: N63TC
 REPORT DATE: 7/13/2017 CLIENT ID: 54603
 CODE: 20/32 PAYMENT: CC: Visa

UNIT
 MAKE/MODEL: Continental IO-520 OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
 FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 48 Hours
 ADDITIONAL INFO: Beech A36, Screen

CLIENT
 BOB/LEN PHONE: (702) 683-7507
 EGA AVIATION FAX:
 2634 AIRPORT DR ALT PHONE: (302) 349-3491
 NORTH LAS VEGAS, NV 89032 EMAIL: egaaviation@gmail.com

COMMENTS
 BOB/LEN: Universal averages show typical wear for an IO-520 after ~35 hours on the oil. Iron, lead, and nickel are elevated in this sample. Some of the metal is from the oil seeing more use than the average interval, but not quite all of it. Nickel should still read close to average even on longer runs, and it could show exhaust valve guide wear. Nickel cylinders are another possible source, so let us know the cylinders types if you can. Monitor for rough starts/operation, and check the oil screen for metal. If you're not having problems, check back in 25 hours to monitor.

ELEMENTS IN PARTS PER MILLION	UNIVERSAL AVERAGES	UNIT / LOCATION AVERAGES				
ALUMINUM	12	12				
CHROMIUM	17	17				
IRON	119	119				
COPPER	9	9				
LEAD	10120	10120				
TIN	2	2				
MOLYBDENUM	6	6				
NICKEL	21	21				
MANGANESE	2	2				
SILVER	0	0				
TITANIUM	1	1				
POTASSIUM	1	1				
BORON	0	0				
SILICON	10	10				
SODIUM	1	1				
CALCIUM	7	7				
MAGNESIUM	0	0				
PHOSPHORUS	0	0				
ZINC	2	2				
BARIUM	0	0				

PROPERTIES	Values Should Be*					
SUS Viscosity @ 210°F	95.2	95.2				
cSt Viscosity @ 100°C	19.22	19.22				
Flashpoint in °F	430	430				
Fuel %	TR	TR				
Antifreeze %						
Water %	0.0	0.0				
Insolubles %	0.5	0.5				
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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