



WESTERN
Skyways
INC.

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Gold Seal Aircraft Engines

ENGINE MAINTENANCE RECORDS

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(800) 575-0829
(970) 260-0882
FAX: (970) 260-4166

Engine Make: CONTINENTAL Model: TSIO-550-C
Serial Number: 1008794 W/O No: W059022 Date: 23 AUG 2022
Warranty Number: H22196 Warranty Start Date: SEPT 2022
Crankshaft Serial No: N22EA244 Cylinder Part Number: 658820A4BP

This engine and accessories listed below were overhauled to "Factory New Tolerances" per Overhaul Manual No: M-18 and Western Skyways, Inc. Repair Specification WSI-100 "Use and Application of Hylomar Sealant" dated 11/10/2010 on all Teledyne Continental Motor Engines and Lycoming Engines as applicable. See back section for Airworthiness Directives and Service Bulletin compliance. This engine was run in a test cell. Total Previous Time: Unknown Hrs.

This engine meets requirements of CONTINENTAL M-0 for 2200.0 Hour TBO

The accessories listed below were New or Overhauled and supplied with this engine:

Component	Part No.	Serial No.	Component	Part No.	Serial No.
L/H Mag:	10-500556-101	D16CA066R	Vac Pump:	N/A	N/A
R/H Mag:	10-500556-101	D16CA276R	Wastegate:	N/A	N/A
Fuel Pump:	649368-60A4	B14GA127	Alt/Gen:	N/A	N/A
Inj/Carb:	R-656785-5	A13GA234R	Pop Off:	N/A	N/A
Man Valve:	R-646433-12A2	C13GA232R	Controller:	N/A	N/A
Starter:	N/A	N/A	VAPC:	N/A	N/A
Turbo:	466304-9003	H-QBL00015	Fuel Limiter:	N/A	N/A
Prop Gov:	N/A	N/A	Tach Gen:	N/A	N/A
TURBO 2:	466304-9003	H-QCL00055			

MAINTENANCE RELEASE

The engine and accessories listed above were overhauled and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this Repair Station on above work order.

Signature: 
Repair Station No. WS9R575J

Form 200 Rev. 2

Cylinder S/N	Cylinder S/N
#1: AC21BA770	#5: AC21BB090
#2: AC21BB398	#6: AC21BC500
#3: AC21CA848	#7: N/A
#4: AC21BC528	#8: N/A

AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - TSIO-550-C

S/N: 1008794

Western Skyways Inc.

CRS: WS9R575J

W/O: W059022

Appliance - Magnetos - TCM (formerly Bendix) S-20 series

S/N: D16CA066R

P/N: 10-500556-101

S/N: D16CA276R

Model: S6RSC-25P

Appliance - Turbochargers - Hartzell Engine Technologies

S/N: H-QBL00015

P/N: 466304-9003

S/N: H-QCL00055

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
74-28-00	Bendix magnetos	23 Aug 2022 Unknown TTE	N/A per magneto part number.	X			Ryan Dickerson WS9R575J RD
82-20-01	Bendix magnetos	23 Aug 2022 Unknown TTE	N/A per magneto serial number.	X			Ryan Dickerson WS9R575J RD
93-08-17	Incorrect oil pick-up tube	23 Aug 2022 Unknown TTE	N/A per engine model.	X			Ryan Dickerson WS9R575J RD
93-10-02	Cylinder valve retainer	23 Aug 2022 Unknown TTE	Installed new CMI cylinders P/N: 658820A4BP with manufacture dates of 18 AUG 2021.	X			Ryan Dickerson WS9R575J RD
94-01-03 R2	Teledyne/Bendix magnetos	23 Aug 2022 Unknown TTE	N/A per magneto serial number.	X			Ryan Dickerson WS9R575J RD
94-06-00	Teledyne/Bendix magnetos	23 Aug 2022 Unknown TTE	N/A per magneto serial number.	X			Ryan Dickerson WS9R575J RD
98-19-01	Crankshaft failure	23 Aug 2022 Unknown TTE	Installed new crankshaft s/n: N22EA244.	X			Ryan Dickerson WS9R575J RD
2000-23-21	Fracture of the crankshaft connecting rod journal	23 Aug 2022 Unknown TTE	N/A per crankshaft S/N: N22EA244.	X			Ryan Dickerson WS9R575J RD
2004-08-18	Prevent loss of engine power	23 Aug 2022 Unknown TTE	Installed NEW CMI cylinders.	X			Ryan Dickerson WS9R575J RD
2007-16-10	To prevent the turbine rotor from separating from the shaft of the turbocharger due to a machining defect in the turbocharger compressor	23 Aug 2022 Unknown TTE	Not applicable by turbocharger serial number.	X			Ryan Dickerson WS9R575J RD
2010-11-04	To prevent excessive hydraulic lifter wear	23 Aug 2022 Unknown TTE	Installed overhauled lifters P/N: SA628488 and SA646277.	X	N/A		Ryan Dickerson WS9R575J RD
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm	23 Aug 2022 Unknown TTE	N/A Fuel injection servo not used on this engine.	X	N/A		Ryan Dickerson WS9R575J RD
2016-16-12	ECI Class 71 or Class 76 Cylinder Assembly Failures	23 Aug 2022 Unknown TTE	Installed NEW CMI cylinders.	X			Ryan Dickerson WS9R575J RD
2016-21-04	Oil Cooler Cross Fitting, Nipple, and Bushing Integrity	23 Aug 2022 Unknown TTE	Installed cross fitting part number 658607	X			Ryan Dickerson WS9R575J RD
2020-16-11	Cross-Flow Cylinder Assemblies Integrity	23 Aug 2022 Unknown TTE	Not applicable by cylinder part number.	X			Ryan Dickerson WS9R575J RD

Columbia N2507S September 23, 2022 Hobbs: 2,186.5 Hours Engine SMOH: Zero (0.0); Propeller Time Since New: 462.9. Received overhauled engine from Western Skyways. Inspected motor prior to installation, no defects noted. Installed Continental TSIO-550-C20 S/N 1008794 in the aircraft. Cleaned, inspected and painted as necessary in the motor mount area. Installed with new Barry 94001-01 Mounts, Bolts and hardware, torqued and safetied. Verified correct control movements, magneto to engine timing. Replaced hoses with new compliment of hoses from Aero Hose (See release). Repaired Baffling as needed. Installed turbocharger system, exhaust and engine accessories. Service oil system with 8 quarts Aeroshell 100 (Mineral) oil, the installed oil filter remains in place. Ground run performed and minor adjustments made, no other discrepancies noted. Magnetos, turbochargers, Turbo Controller and fuel injection system were all fresh from the overhauler, see their records for details. Replaced the RAC40256-1 & -2 Propeller De-Ice pickup clusters. Researched ADs through 2022-19. I certify that this engine has been inspected in accordance with a 100 Hour inspection and has been found to be in an airworthy condition.



Joseph G. Petersen
3834491 A&P

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED – SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N number: N2507S	Hobbs: 2186.9	Tach: _____ Date: 11/ Oct /2022
<p>Performed propeller balance procedure using Chadwick Vibrex 2000 with "very good" results of .08 IPS. Addressed connections with charging system (see airframe log). Final ground run performed with no defects noted.</p>		
<p>Name: Joseph G Petersen Certificate number: 3834491 A&P signature: <i>Joseph G Petersen</i></p>		
<p>Columbia N2507S November 16, 2022 Hobbs: 2,194.0 Hours Engine SMOH: 7.5; Customer detected a fluctuation of approximately 10 PSI oil pressure while on a cross country flight. Downloaded recent flight and reviewed oil pressure data. Ground run for warm up and to monitor oil pressure performed with no defects noted. Drained oil, collected oil sample and sent for analysis, removed oil filter and opened, inspecting all pleats, removed oil pressure relief valve and inspected. No defects were noted, no metal particles were detected. Installed an AN900-18 crush gasket on the PRV assembly and installed. Installed a new Tempest AA48108-2 oil filter and replenished with 7 quarts Aeroshell 100 mineral oil. Safetied the oil filter and PRV assemblies. Ground run performed, no defects noted.</p> <p style="text-align: right;"><i>Charles A. Kemper</i> Charles A. Kemper 3470895 A&P</p>		
<p>Columbia N2507S April 7, 2023 Hobbs: 2,220.6 Hours Engine SMOH: 14.1; Propeller Time Since New: 477.0 Disassembled aircraft as needed to inspect the airframe in accordance with the inspection checklist found in the Cessna Columbia 400 Service Manual. Researched AD's through Bi-Weekly 2023-07. Complied with AD2023-05-16 (Crankshaft Counterweights) by removing the #1 and #3 cylinders. Inspected the counterweight retaining hardware and measured the snap-ring gaps with the tool provided by Continental. All snap-rings exhibited proper orientation to the center of the crankshaft and proper engagement. All work was performed IAW paragraph G of the directive and Continental MSB23-01 Rev A. Replaced the P265-100G-E4A oil pressure transducer with new. Performed ground run and leak check. Performed compression test utilizing the calibrated orifice method, no discrepancies noted. Inspected cylinders and the intake and exhaust valves by boroscope (or direct visual on 1&3) with no discrepancies observed. Verified continuity of controls. Ground run completed. No discrepancies found. Aircraft Lubrication schedule completed per service manual as needed. Inspected fuel system and cleaned / inspected the fuel screen. I certify that this Engine has been inspected in accordance with a <u>100 Hour Inspection</u> and has been found to be in an airworthy condition.</p> <p style="text-align: right;"><i>Charles A. Kemper</i> Charles A. Kemper 3470895 A&P/IA</p>		

DAT

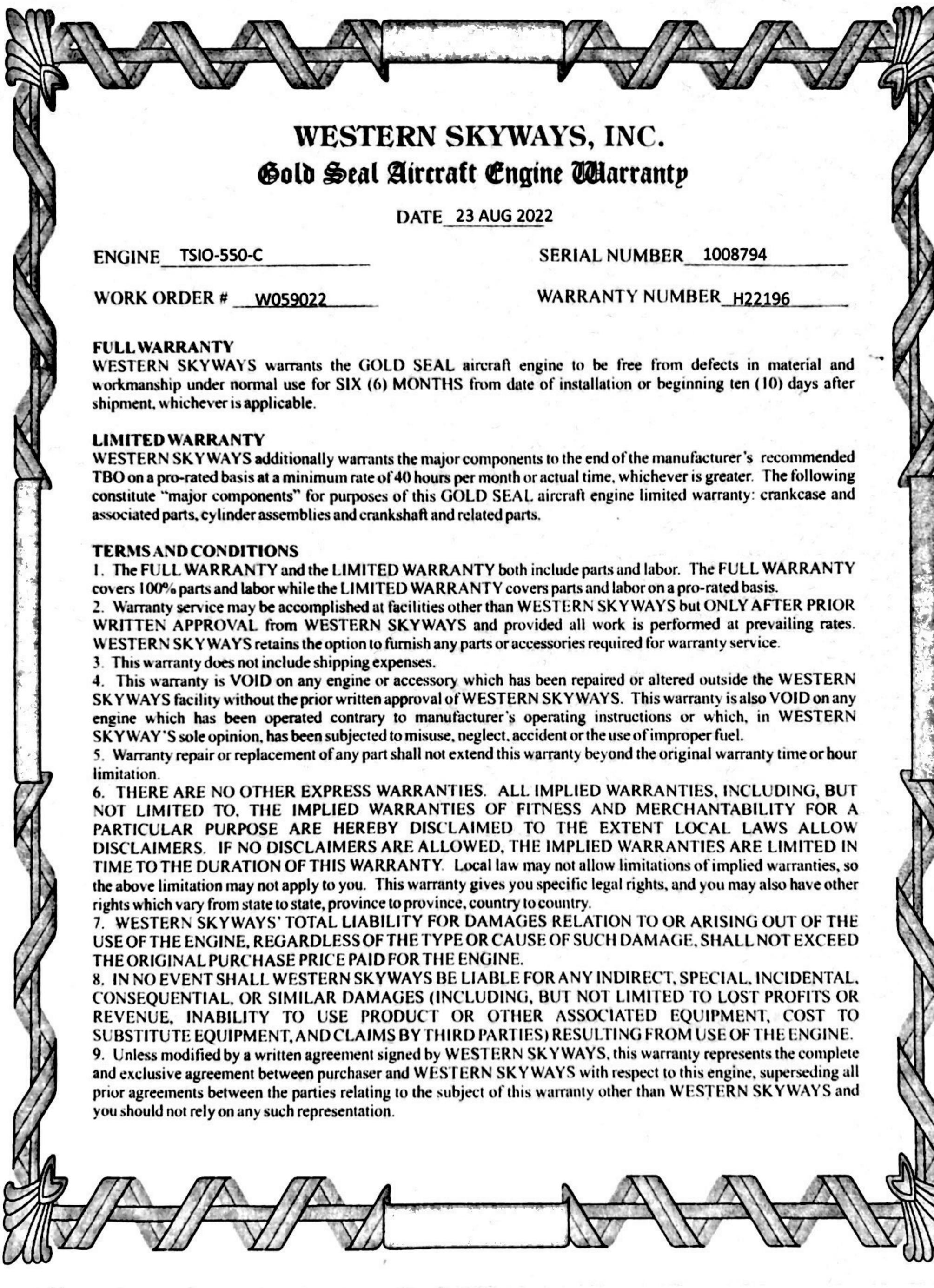
Charles C. Foy

Charles A. Kemper
3470895 A&P

Columbia N2507S April 7, 2023 Hobbs: 2,203.1 Inspected the V-Band clamps upon receipt of AD 2023-09-09 (effective date will be in July 2023). Performed Paragraph (K) (1) through (7) on each with no defects noted, allowing operation until December 31, 2023 or 100 hours TIS (Flight Hobbs 2,303.1) whichever occurs first.

Charles A. Kemper
3470895 A&P

[illegible]



WESTERN SKYWAYS, INC.
Gold Seal Aircraft Engine Warranty

DATE 23 AUG 2022

ENGINE TSIO-550-C

SERIAL NUMBER 1008794

WORK ORDER # W059022

WARRANTY NUMBER H22196

FULL WARRANTY

WESTERN SKYWAYS warrants the GOLD SEAL aircraft engine to be free from defects in material and workmanship under normal use for SIX (6) MONTHS from date of installation or beginning ten (10) days after shipment, whichever is applicable.

LIMITED WARRANTY

WESTERN SKYWAYS additionally warrants the major components to the end of the manufacturer's recommended TBO on a pro-rated basis at a minimum rate of 40 hours per month or actual time, whichever is greater. The following constitute "major components" for purposes of this GOLD SEAL aircraft engine limited warranty: crankcase and associated parts, cylinder assemblies and crankshaft and related parts.

TERMS AND CONDITIONS

1. The FULL WARRANTY and the LIMITED WARRANTY both include parts and labor. The FULL WARRANTY covers 100% parts and labor while the LIMITED WARRANTY covers parts and labor on a pro-rated basis.
2. Warranty service may be accomplished at facilities other than WESTERN SKYWAYS but ONLY AFTER PRIOR WRITTEN APPROVAL from WESTERN SKYWAYS and provided all work is performed at prevailing rates. WESTERN SKYWAYS retains the option to furnish any parts or accessories required for warranty service.
3. This warranty does not include shipping expenses.
4. This warranty is VOID on any engine or accessory which has been repaired or altered outside the WESTERN SKYWAYS facility without the prior written approval of WESTERN SKYWAYS. This warranty is also VOID on any engine which has been operated contrary to manufacturer's operating instructions or which, in WESTERN SKYWAYS' sole opinion, has been subjected to misuse, neglect, accident or the use of improper fuel.
5. Warranty repair or replacement of any part shall not extend this warranty beyond the original warranty time or hour limitation.
6. THERE ARE NO OTHER EXPRESS WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED TO THE EXTENT LOCAL LAWS ALLOW DISCLAIMERS. IF NO DISCLAIMERS ARE ALLOWED, THE IMPLIED WARRANTIES ARE LIMITED IN TIME TO THE DURATION OF THIS WARRANTY. Local law may not allow limitations of implied warranties, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province, country to country.
7. WESTERN SKYWAYS' TOTAL LIABILITY FOR DAMAGES RELATION TO OR ARISING OUT OF THE USE OF THE ENGINE, REGARDLESS OF THE TYPE OR CAUSE OF SUCH DAMAGE, SHALL NOT EXCEED THE ORIGINAL PURCHASE PRICE PAID FOR THE ENGINE.
8. IN NO EVENT SHALL WESTERN SKYWAYS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR SIMILAR DAMAGES (INCLUDING, BUT NOT LIMITED TO LOST PROFITS OR REVENUE, INABILITY TO USE PRODUCT OR OTHER ASSOCIATED EQUIPMENT, COST TO SUBSTITUTE EQUIPMENT, AND CLAIMS BY THIRD PARTIES) RESULTING FROM USE OF THE ENGINE.
9. Unless modified by a written agreement signed by WESTERN SKYWAYS, this warranty represents the complete and exclusive agreement between purchaser and WESTERN SKYWAYS with respect to this engine, superseding all prior agreements between the parties relating to the subject of this warranty other than WESTERN SKYWAYS and you should not rely on any such representation.