QUEENSLAND ULTRALIGHT ASSOCIATION

July 2003 News Letter

Watts Bridge Memorial Airfield, Silverleaves Road, Toogoolawah, Qld

Annual Subscriptions Are Now Overdue !!

Please be sure to send your annual subs to the Treasurer as soon as possible.

THIS IS THE LAST NEWSLETTER FOR MEMBERS WHO HAVE NOT YET RENEWED THEIR MEMBERSHIP…….SO ONLY $40.00 !!

Any person wishing to assist in the **"Centenary of Flight"** please e-mail your address **to** andydunlop@dodo.com.au or if you know other people in the aviation fraternity interested to help Queensland excel please submit their address as well.

A spring flight around Qld is being organised to conclude at Rockhampton as a fly-in on the 20th-21st September 2003. Sending in your e-mail will ensure your kept up to date with proceedings.

We need volunteers to take the collection of mail to the delivery point near Wagga Wagga. It would be nice if we could fly in formation using QLD map as the shape of same.

WHY LOM AIRCRAFT ENGINES?

For those aircraft builders who are searching for a reliable aircraft engine with the highest level of sophisticated aircraft engine engineering and a proven track record.

- Manufacturing occurs under stringent regulations in a country known worldwide for its history of quality workmanship in the aviation industry
- LOM engines are certified in some places and provide a 2000 hr TBO
- LOM engines offer the most advanced technical and engineering features combined with extreme reliability and maximum redundancy

Small Frontal Area

- Decreases drag
- Less power needed for same performance as horizontally opposed
- Opportunity to design slim cowl with excellent aerodynamic features
- Better visibility around the engine, especially during climb on take off

Fuel Efficient Design

- Low specific fuel consumption
- Most efficient "hemi" combustion space in cylinder head with angled valves in cross-flow configuration, activated by overhead camshaft with short rocker arms on needle bearings
- Well atomised fuel injection into each cylinder; mechanically timed and exactly metered,
- Mechanical automatic mixture control

Superior Fuel Injection

- Fuel injection pump incorporates into one body: The fuel supply pump, deaeration chamber and sophisticated automatic mixture control mechanism tied together with mechanical metering of fuel to each individual fuel injector
- TBO of this fuel system is the same as the engine, 2000 hours
- It should be noted that this reliable fuel system is working in any position - aerobatic
- Does not have and does not need any electronic input, sensors or chips for its superior, reliable, efficient function

. **No Vapor or Pneumatic Lock**

- Due to high flow of return fuel and design of fuel injection pump's deaeration chamber, any vapor or air bubbles are returned to the main fuel tank where they have a chance to escape via breather to the atmosphere
- More importantly the whole fuel system on engine is designed to prevent creation of vapors by strategic location of pump in stream of cooling air. The fuel circulation also cools the fuel hoses, gascolator and pump internally. The circulation of oil lubricating the pump also contributes to cooling.

Controllable Supercharger

- More power on demand - controlled from cockpit by pilot
- May be engaged or disengaged in any phase of flight
- Engage for more power, extra 6 PSI of M.P. for: Engine Start, Take Off, Climb, High elevation flying
- Disengage for: Lower fuel consumption in cruise
- The secondary benefit of gearing up for high speed supercharger impeller is the use of the same drive to reduce the speed and increase the torque of starter motor, **Low Octane Fuel**
- Automotive fuel is readily available
- Able to operate in countries where aviation fuel is not obtainable

Direct Drive

- Extremely reliable
- Restart by diving (in emergency)
- Lower weight
- High endurance for aerobatic flight

Gear Driven

- All accessories are gear driven
- No belts to inspect for deterioration, replace or fail in flight

AirCooled-

Cooling shroud and baffles installed at the factory, simplifies engine installation for the user

- Proven design for equal - cooling of all cylinders, on the basis of exhaustive testing
- No additional cost

No Hydraulic Lock

- Extremely effective lubrication
- Dry sump
- Separate oil tank
- Dual scavenging pumps
- Designed for aerobatics

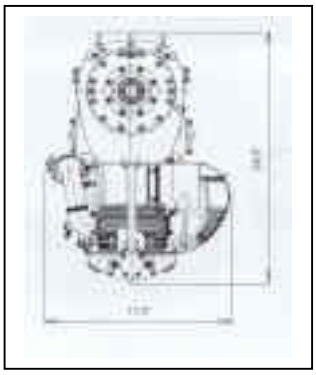
Aerobatic

- All LOM engines are capable of aerobatics
- AK engine models are capable of unlimited inverted flight

Vacuum Pump Drive

- Optional
- Shown with vacuum pump installed

Crankshaft Front Ball Bearing Support



- Turbine engine technology
- Engines are also available in pusher configuration
- Very suitable for aerobatics

Replaceable Propeller Flanges

- Able to use different propeller types such as:
- Fixed pitch
- Ground adjustable
- Constant speed
- Automatic

Duralumin Connecting Rod

- High strength, Low weight
- Polished and anodised
- Lower vibration
- Lower reciprocating and centrifugal forces

Forged Pistons

- High strength, forged
- Light weight, special alloy
- Potential for higher engine speed
- Coated for engine break in

Hemi Head

- Sodium cooled exhaust valves
- Most fuel efficient combustion chamber
- Inclined intake and exhaust valves

Dual Ignition

- Two reliable magnetos and two sets of spark plugs

4 cylinder 120HP 105 Kg 6 cylinder-250HP-150Kg perfect for spitfire

QUA Minutes of meeting 2-6-03
Chairman. M Smith. Meeting opened 8.00 pm.
Apologies. Tanys McCarron, Margaret Vote, Andy Dunlop.
Visitors. Robin Salisbury
Minutes of previous meeting were read.
Acceptance: Moved J McCarron 2nd D Mellow. Passed.
Treasurer reports cash in bank $14,717. Membership renewals total 18 so far.
An e-mail list has been drawn up & confirmed. All the rest will receive a newsletter in the mail.
Social Director. 1. Glenda appeals for more help in running the monthly raffle (donations of prizes)
2. Volunteer transport may be required to ferry people between Watts &Toogoolawah on Saturday and Sunday morning 5th & 6th July.
3. Members and others wishing to attend the XMas in July dinner must have their names in to Glenda by 2.7.03.
Also propeller raffle butts must be in by same date.
General Business.
Bevan suggested that the lull in support for monthly fly ins was due to a post Narromine low. Others thought a return to better weather conditions will lift interest.
It was moved by John McCarron & 2nd Mike Smith that our representive to the W.M.B.A. move to have Rod Mill made a life member of that body. Passed.
Col Thorpe was approached by Russell Schloss, Ipswich (3201 6588) for the loan of any aircraft objects to help promote activities on 26th July at Heritage City Community Church.
Lloyd won the (evening) raffle.
Thanks to Robin Salisbury for supper
Meeting closed at 8.45