Sport Aviation Corp Ltd Microlight Aircraft Defect Report		
Reporter's Name: Address: Address: 12 January 2018		
Aircraft Registration:		This section will remain confidential
Microlight Type:A	eroprakt	Model: Foxbat A 22 LS
Total Time in Service: - Airframe: 312 Hours Engine: 312 Hours		
Hours Since last Inspection: 12 Report date: 15/01/2018		
Reporter:	Owner (Inspector	Safety Officer Other
Defect Type:	Airframe	Instruments Other Circle One
Location if Airframe:	Fuselage Wings	Tail Other
Discovered During:	Preflight Inspection	Maintenance Flight Other
Describe the defect in detail (attach photos if possible): The tube nut holding the barb Sitting in place on the inlet of the oil supply to the evigine came loose in Slight. Resulted in loss of lubrication oil and engine spesure. Air craft made an outlanding.		
Describe the effects (if any) of the defect on airworthiness: The tube nut found to have loose clearance on its thread.		
Damage to engine - Broken conrod (big-end) on Nol Cylinder causing siezure and break-out at the top of the crank-case Describe remedial action taken and by whom: Engine replaced by Northland Aviation htd. I took extra step to lock-wire		
tube nuts to prevent reaccurance. I believe with A threads, loose nut, this nut is not becure and must be lockwired.		
Sport Aviation Corp Ltd Operations Manual Revision 0 01 Apr 2011 Form # 8.9		

On analysis, I discovered that the Foxbat had not reaked oil prior to the Sailure. With the oil cooler mounted above the Sailed Sitting, some oil would have reaked reaving evidence in the hangan. Also preflight checks and engine monitoring did not show tell-tail signs prior to engine siegure. The Slight where the Sadure occurred was an evaluation Slight prior to the student going solo. I interpret that this Slight probably contained " out of the alsuer" Slight managements that contained vebrations that may have led to this tube-nut comming loose.

I have already sent relevent photos but included is a photo of the nut as lockwired on return to Services after engine replacement.

I recommend this action on all Sittings of this type where tube nuts are used.

Further to my "Defect report" on the Foxbat

I have checked another aircraft of the same type:-

The oil line on the oil cooler on that aircraft was also loose. I advised the owner to lock-tite the tube nut and also lock-wire it. He did so.

I believe all these aircraft have a weakness in this area and their owners should be advised.