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To: Grant Robinson
Repair Station Manager
Thai Aviation Services Limited

SEL-18-0076

Fm: Alesha Irvin
Re: SEL-18-0076 Air Conditioning Compressor Seized
Dt: 22 June 2018
cc: Scott Graham

Greetings Grant,

This letter is submitted to provide Sikorsky Engineering's feedback regarding the Air Conditioning compressor found seized.

Part number: 76-0551-1
Serial Number: T-M12590-03
Aircraft: 761063

Summary of findings: Based upon TAS review of the issues and their own root cause analysis it appears the unit had an insufficient amount of the ISO 68 oil. Possible overcharging of the system refrigerant coupled with insufficient amount of ISO 68 oil were contributing factors to the failure of the compressor.

Inspection and solution details:

Compressor assembly inspection was performed findings include: frozen shaft, pulley and endplate are in good condition, and evidence of a shaft seal oil leak with the oil on the pulley and end plate. The unit was received with an unknown internal oil and heavily contaminated with metal shavings (extent and type of contamination unknown). Sikorsky's recommendation going forward is to ensure proper servicing of the unit is accomplished by using the manufacturer's manual CR-76-10 and TAS S76D Tech Memo 094/17.

Please do not hesitate to contact me if any additional information is requested on this matter

Sincerely,

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