



CERTIFICATE OF CONFORMITY

Work Order Number
A00895

Airborne Engines Ltd

7762 Progress Way, Delta, BC, Canada, V4G1A4

Description	Qty	Part Number	Serial Number	Status / Work
T53-L-703 Engine Assembly	1	1-000-060-23	LE-18414Z	Overhauled

Remarks:

Performed 200 hours service inspection, 300 hours Starter Gear Spline inspection (Female Only), 600 hour fuel manifold and start nozzle overhaul, 1250 hours FCU Silicone Oil Level inspection, 2500 hours FCU Overhaul, 3000 hours Overspeed Governor Overhaul, 5000 hours Engine Overhaul. Replaced Compressor Front Shaft, Rotor Spool, Rear Shaft, Centrifugal Impeller, 1st Stage GP Disc, 1st GP Sealing Disc, GP Spacer, 2nd GP Sealing Disc, 2nd Stage GP Disc, 1st Stage PT Disc, PT Spacer, 2nd Stage PT Disc, Power Shaft, Fuel Control Unit (installed s/n: 692AS6689 TSO: 0.0), Overspeed Governor (installed s/n: 692AM14281, TSO: 0.0), fuel manifold (s/n: 3277215 & 32570104 TSO: 0.0) and 4ea Start Fuel Nozzles. Engine disassembled, cleaned, inspected, assembled, and tested IAW Honeywell Overhaul Manual 290.3 Rev. 2 dated 31-Aug-2008 (TR 256). Repaired IAW Honeywell Repair Manual 72-09-41 Rev. 2 dated 01-Dec-2009 (TR 72-65) . Performed Airworthiness Directive 75-22-02, 2006-01-05, 2006-11-16, 2022-10-02 and Service Bulletins T53-L-703-0001R20, -0020R3, -0024R5, -0030R1, -0031, -0032, -0049, -0053R2, -0056R3,-0055, -0056R4, -0057R1, -0062R1, -0063, -0084R1, -0088R1, -0093R2, -0094R1, -0096R1, -0097, -0098R2, -0099R1, -0100R2, -0102R1, -0104, -108R1, -0110R1, -0120R1, -0125, -0126, -0128, -0129, -0132, -0138R1, -0141R3, -A0143, -0146R4, -0156R3, -0160, -0162, -0167, -0171R2, -0175, -0180, -0184, -0187R1, -0188,

Engine TSN: 583.00 TSO: 0.0

Comp. Cycles: 4,276.09 GP Cycles 2,732.97 PT Cycles 4,807.03

This is to certify that the maintenance described has been performed in accordance with all Purchase Order Requirements, with processes and specifications listed above.

Date	Name	Signature
15/Apr/2024	Harvey Dhiman	 



MAJOR ENGINE COMPONENT OPERATION HOURS/CYCLES

DATE: 12-Apr-2024

ENGINE SERIAL NUMBER: LE-18414Z

ENGINE MODEL: T53-L-703

COMP. CYCLES: 4,276.09

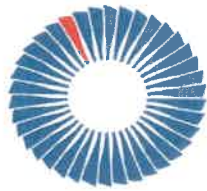
ENGINE TSN: 583.00

GP CYCLES: 2,732.97

ENGINE TSO: 0.00

PT CYCLES: 4,807.03

COMPONENT	PART NUMBER	SERIAL NUMBER	HOURS		CYCLES	
			CURRENT	REMAINING	CURRENT	REMAINING
COMP. ROTOR ASSY						
COMP FRONT SHAFT	1-100-495-07	1M024	1,815.30	23,184.70	5,990.49	19,009.51
ROTOR SPOOL	1-101-250-03	M2221544	941.00	11,059.00	3,105.30	13,394.70
IMPELLER	1-100-078-13	18-162246-02547	0.00	15,800.00	0.00	14,000.00
REAR SHAFT	1-100-501-01	4L034	4,500.20	20,499.80	4,276.09	20,723.91
G.P. ROTOR ASSY						
1ST STG G/P DISC.	1-100-133-01	C205	2,140.20	18,659.80	2,732.97	5,597.03
2ND STG G/P DISC.	1-100-063-05	539	2,140.20	22,859.80	2,732.97	22,267.03
1ST SEALING DISC.	1-100-545-03	D148FS	2,140.00	22,860.00	2,732.97	14,067.03
2ND SEALING DISC.	1-100-544-03	B323	2,140.20	22,859.80	2,732.97	22,267.03
G.P. SPACER	1-100-546-02	M398658	2,140.20	22,859.80	2,732.97	10,867.03
P.T. ROTOR ASSY						
1ST STG P/T DISC.	1-190-009-05	82047	2,140.20	6,859.80	2,447.03	3,552.97
PT SPACER	1-140-169-04	071410	2,140.20	22,859.80	2,447.03	12,552.97
2ND STG P/T DISC.	1-140-272-04	82C025/6332	2,140.20	8,659.80	2,447.03	5,552.97
POWER SHAFT	1-100-800-04	5262	4,500.20	20,499.80	4,807.03	20,192.97
			TSO:			
FUEL REGULATOR	1-170-780-01	692AS6689	0.00	2,500.00		
OVERSPEED GOVERNOR	1-160-850-23	692AM14281	0.00	3,000.00		



Airborne
Engines Ltd

**HONEYWELL T53-L-703 SERIES ENGINE ASSY
ENGINE PERFORMANCE RATING RECORD**

OWNER: AEL **MODEL:** T53-L-703
W/O: A00895 **DATE:** 5-Apr-24
ENGINE P/N: 1-000-060-23 **S/N:** LE-18414Z
TSN: 583.0 **TSO:** 0.0

ENGINE PERFORMANCE RATINGS FOR STANDARD DAY SEA LEVEL CONDITIONS

MILITARY RATED POWER

	Limits	Ratings
SHp	1485	1485
N1 %	101.0	99.8
MGT (*F)	1475	1374
MGT (*C)	802	746
SFC (lb/hr/shp)	0.596	0.590
FUEL FLOW (pph)	885.1	875.9
Torquemeter pressure (psig) @ 1125 ft/lb	58.2 -- 63.8	62.8

This engine has satisfactorily demonstrated compliance with the performance requirements of the T53-L-703 Overhaul Manual and has been accepted.

Service Bulletin T53-L-703-0100 has been carried out and found satisfactory.

INSPECTOR:



AEL 457-91

DATE:

4/5/2024