



**RAM**  
**AIRCRAFT CORPORATION**

**ENGINE  
MAINTENANCE  
RECORDS**

Aircraft Registration C-FDYS  
Engine Position RIGHT  
Engine Serial No. 509541



## ENGINE MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. C-FDYS

Engine Manufacturer ICM

Model ISI0-520-NB

Serial No. 509541

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

Right     Left

817/752-8381

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Waco Regional Airport

SERIES I TCM TSIO-520-NB S/N 509541

Engine Previous Total:	4938.8
Since Remanufacture:	00.0
Date:	04/06/94

Above referenced engine remanufactured to new parts limits to conform w/TCM SM X-30574A. Installed RAM camshaft p/n 1058-3 SL, s/n L93016 per DER Approval. Installed heavy style case p/n 642507 w/ new Cermicrome cylinders. Cylinders modified to RAM p/n 1158-2 per STC SE3631SW. Crankcase modified to RAM p/n 1157-18 per STC SE3630SW. Cylinder hold-down nuts replaced and torqued per overhaul Manual Supplement. Installed overhauled prop governor. Engine accessories exchanged for remanufactured units w/exception of vacuum pump which was not installed per this work order. New slick pressurized mags p/n 6320 installed per STC SE4651SW and pressurized. See 337. M-88-08 R1 magneto timing procedure per per timing to data plate TC or STC degree requirements with TDC locator and protractor with pointer. Engine modified to TSIO-520-NB per Continental Service Bulletin M-75-6. AD 86-13-04 R3 was complied with and found N/A per cylinder p/n. Installed modified connecting rods p/n 1162-1 with bearing p/n 630826 per DER Approval. Installed RAM/FAA/PMA rocker arms p/n 1158-6 and -7. (single-piece bushing). Cadmium plating of engine hardware and associated lines and fittings per QQ-P-461C Class 2, Type II. AD 93-08-17 not applicable per non-TCM overhaul. AD 78-06-01 c/w previously per new intake tube p/n 642590. AD 79-05-09 c/w previously per current design plunger assy. Replaced at this time w/new assy. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A4 with current scavenge pump gears. Service Bulletin compliance through SIL-640 in RAM Manual. AD 76-02-07 n/a per installation of ALV9510 alternator. AD 87-23-08 is n/a per crankshaft p/n. TCM SB 92-16 n/a to TSIO-520 "B" series crankshaft. Above referenced engine was made eligible for 1600 hr. TBO per TCM M91-08 Note 3. AD 88-03-06 is n/a per oil filter installed this date. AD 91-19-03 is n/a per code date of Champion oil filter p/n CH48109. All aluminum alloy engine parts were coated per RAM specification No. 1142. Crankshaft assy., connecting rods, pistons, piston pins, alternator rotor and turbocharger compressor wheel assy's. were balanced per RAM Specification No. 1161. See RAM Certificate. Installed spring loaded induction clamps p/n 1170-2 per STC SE3632SW. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1387-1. Cylinders flowed per RAM Cylinder Flowing Specification No. 1242. C/W AD 93-16-15 per TCM SB M93-9 R1 installation of fuel pump drive coupling p/n 653359. AD 93-10-02 (MSB 93-12) N/A per non-assembly new cylinder purchase. Engine ground run on test stand per RAM Specifications for three hours. Engine run-in with Aeroshell 50 wt. non-detergent mineral oil. RAM Aircraft recommends 25 hours operation on mineral oil, then switch to a detergent multi-viscosity or single-viscosity oil. See RAM Recommended Oil Grade Maintenance Tip MT-1. Engine approved for return to service for RAM Aircraft test flight procedures. Pertinent details on file under work order no. 1123/H0070.

*James J. Hemand*

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