

11.05.2024 Tach 7890.6 Hobbs 4625.6

-drain fuel from carburetor bowl, check for water/debris. If you have water finding paste please use it.	Drain clean
-overall engine condition	Good, no holes or leaks (photos)
-verify all fuel/oil lines are secure	Good
-verify throttle/mixture/carb heat control positions and obtain continuity to the cockpit controls-	Good
-Verify engine oil level	Just under 5 qts- normal
-is everything securely mounted-accessories etc	Good
-disconnect all spark plug wire Infiniti on leads (top and bottom)	Done
-remove and label all top plugs-make sure to mark which cylinder they came from	Done
-inspect spark plug electrodes	Good, cyl 4 slight white/lean
-disconnect magneto p leads	secured
-Remove rocker box covers	
-if possible examine cylinders with borescope	1-3 uniform, 4 has light scratches bottom of cyl wall
-rotate crankshaft	No issues both impulse couplers click at tdc
-while rotating crankshaft verify pistons are moving within cylinders and accessory gear box gears are moving	Good
-observe rocker arm movement on all cylinders for the intake and exhaust-looks for asymmetrical movement	
-obtain thumb compressions and suction on cylinders-	Good
-verify spark on all ignition harness leads-if no spark we may need to further examine magnetos	Good, all 8 spark
-if both magnetos are still attached verify engine to magneto timing if able	28 btcd- TCDS is 24, some TCM doc to allow 28 if all millennium cyl (unconfirmed)
-document air intake/air filter screen-look for damage or blockages or leaks	Intake filter on (bracket), airbox interior ok
-document exhaust system overall	External ok, LH and LH up tailpipe- no obstruction, small amount of heat warp (1 sq in) (photos of LH)
-if you cannot get spark on the plugs-remove the magnetos for further inspection.	N/a good sparks
-document condition of ignition harness	Good

-verify fuel lines to the carburetor are secure	Good
-remove carburetor	
-actuate throttle arm from stop to stop	Good
-verify mixture arm moves stop to stop	Good
-remove fuel inlet screen and verify cleanliness	Gascolator and carb finger screen good(photo). Fuel line between clear inside
-note condition of floats, needle valve, valve seat, float bowl	Visual from underneath with airbox off, no issues scene
-check primer system	good
Fuel venting	Gentle pressure applied to LH fuel vent drain, opened left and right caps and had positive pressure- venting and cross vent ok.

Run up-

started quick cold idle normal,
 mag/carb heat normal at 1700,
 static rpm 2400, but a little rough, worse at 2000 rpm..
 Idle mixture at 1300 not noticeable,
 idled smooth when warm at 700, idle mixture small rise right at end

Oil filter- about a dozen small flakes (photo), no glitter

Carb internal

Intake debris/tubes- removed cyl 4 intake- good

Ignition switch

Spark plug pictures