Racing Spot

EARLYSTERNS YAMAHA XJ550

The final CHAPTER

Remember the XJ550 Yamaha donated to us by AP Motorcycles way back in 1998? Dur intention was to race it with the Earlystocks club. But the best laid plans...
However, the bike was rescued by 'Team Donkey' and is now a title holder. Chris Pearson takes a ride and wife Stevie takes the pictures.

LONG TERM readers may well remember the start of a Mechanics Yamaha XI550 race bike project from way back in 1998. Originally donated to the mag by AP Motorcycles, the plan was for contributor Alastair Rosie to prepare the bike for competition in the Earlystocks championship.

Unfortunately, this went a little awry when Alistair took up long-distance lorry driving and the whole lot changed hands, making its way from Alistair's home in Oxford into the grasp of 'Team Donkey', aka Shaun Philipot and rider Karl Scott.

Much work had already been completed by Alistair - lightening of the engine internals and other such efforts to gain extra horses and grunt but it was the move to Spilsby in Lincolnshire that really kicked the XI project back into gear.

The XI550 may seem like a strange choice, as the original machine was outclassed performance wise by most of the middleweight opposition of the day. The ability to easily fit later parts from the FZ600 would appear to be the key to the type's quantum leap in performance.

The frame was strengthened by welding small gussets in crucial areas and then sent off for painting to C&J Powder Coatings of Grimsby. The resulting azure blue finish that was applied is still a smooth and shiny testimony, a couple of years

on, of their workmanship and competence at the painting game.

The swingarm and yokes also came in for the azure treatment, as indeed have been the tank and wheels to suit. The swingarm bushes were modified and up-rated to cope with the extra forces and new bearings fitted to both the steering head and the wheels.

Finishing off the bodywork nicely is a fibreglass seat unit that, although borrowed from a thoroughbred Yamaha TZ race machine, doesn't look out of place on this early Eightles sports tourer.

A pair of Ohlins damper units are responsible for keeping the rear end in check while, in keeping with the Earlystocks rule book, the front end is completely standard, although the internals have been modified to perform better.

The actual geometry of the frame is also exactly as factory supplied, once again another club ruling, but anyone who rode the original machine can testify that the in-line four was quite a nimble little machine if a little under-powered compared to its opposition.

In the stopping department the rear drum is still intect but a pair of Suzuki 600 Bandit calipers, held in place by special mounting plates, now grab the Yamaha front discs. Stainless steel braided hoses complete the package as they link







Later FZ600 Yomaha parts have been fitted including the cylinder head.

LEFT: The frame has been strengthened according to the rules and seat and twit unit is from a TZ racing Yemaho. Looks the business all right.

admit to having polished them a little.

The original and troublesome 550 cylinder head has long gone to be replaced by a later FZ600 item. This in turn has been heavily modded to allow a greater compression ratio as well as the fitting of improved valves and springs.

The FZ cams have also been re-profiled to give more power and the carburettors are now 29mm. Keihin CR units allowing a whole load more fuel and air through into the combustion chambers than the standard Yam instruments.

The barrels have been machined down to raise the compression and the cylinders rebored to the maximum allowable, once again all of this work has been skilfully carried out by Wildmans of Spilsby. Shaun points out that without their help the whole project would not have been possible, either mechanically or financially.

On the other side of the engine a Micron FZ600 exhaust system has been cut and re-welded to fit the 550 chassis. The lengthening of the down pipes also allows a better gas flow, greatly improving the low down power.

The large end can has been swept up and out of the way mainly because the shortness of the 550 chassis resulted in the can sticking out from the rear, which is illegal for racing purposes, Thankfully, with most race tracks running in a clockwise direction, the steep rake also increases the ground clearance on the right hand side.

BACKUP SAT ON THE SHELF

A MIX of the standard ignition and Dyna coils handle the sparks, although a complete aftermarket system is sat on the shelf ready and waiting should it ever be required.

The bike now outputs in excess of 70 bhp at 9000 revs with an impressive 42 ft/lbs of torque occurring around the seven thou mark, These figures are doubly impressive when a recent dyno run was made and the Mechanics bike was compared with one of its other Earlystocks combatants, 2001 champion Nigel Lawrence's X1550.

The blue XJ was taken to the Dynomax UK dyno right next door to the Mortons HQ in Horncastle. Shaun's baby produced a clear ten bhp more and

a similar gain in the all-important torque curve over the rival machine.

The dyno sheet is strong indicator of superb carburation, ignition and engine tuning and by the look of this one it doesn't get any better than on this XI.

With all of this extra grunt over the original 50 bhp, one would imagine there would be serious. deficiencies in the drive train but this super XJ still runs the original clutch and gearbox. In fact the bike has only ever failed to finish on one occasion and that was down to an electrical fault rather than a mechanical one.

With Karl on board the XJ was the bike to beat throughout the 2002 season convincingly winning the Earlystocks championship along with several similar titles run by other clubs. Having ridden with Karl on a number of occasion I for one can state he is no slouch but every rider has to have a fine steed upon which to work his wonders. So just how good is the old Yam?

PREPARED SUPERBLY

WE met up with Karl, Shaun and the XJ at a sunny Mallory Park practice day to finally put a full stop behind the Mechanics XI 550 project. The bike looked superbly prepared as we pulled into the paddock, not a single spot of dirt to be found anywhere.

Shaun has fabricated every fastener, bracket and spacer while virtually every nut and bolt on the bike has also come under his scrutiny in the lathe, kindly supplied by Paul Allis of East Lincs Motorsports. This kind of top notch preparation would not look out of place at the very highest of racing levels.

I had elected to go out in the fast group as the Intention was not to hang about! With the static photography out of the way first (always a good idea for obvious reasons) it was soon time to robe up and get out there.

The heat was stifling and it was some relief to start circulating and get the many helmet and leather vents opened up and working in my

From the outset those impressive power and torque curves were in evidence and the 550 was easy to ride around with the rest of the pack, pulling well from mid range and with a fairly linear throttle response.

Good power was available almost anywhere in the rev range with the engine finally suggesting a gearchange around the 10,000 mark. A useful over-rev is there should it be required, but the power certainly starts to head south quite rapidly once into double figures.

Every modification works well with no one point on the bike standing out above the others in performance, it just gels together and gets on with the job. The bike is well balanced and certainly a lot lighter than the 420 lb quoted for the road-going version.

The engine pulls strongly and cleanly, while the Bandit brakes grab and stop as well as anything, with no perceptible fade even in the excessive heat of the day.

Once the speed has been scrubbed off, the bike can be laid on its ear and the gas applied again to get it around the fast approaching corner. This job was handled well, the forks and rear shocks making light work of the information being relayed to them via the tyres, allowing the rider to assess every single bump and imperfection on his way to a fast lan.

The chassis breeds confidence and begs to be ridden harder all the way. It may have come as some surprise to a few of the modern bike riders at Mallory that day when the little Yam not only held its own but gained on a few around the daunting Gerrard's bend.

It was also particularly impressive on the exit from the bus stop and into the Devils Elbow where all of the 70 horses could be let out for a gallop with out fear of a high-side.

After several fast laps the 22 year-old aircooled engine did start to suffer from the heat that I had been struggling with from the outset and reduced power was felt.

The enlarged, ten row, oil cooler situated just below the headstock was doing its best but without cool air running through it was facing an uphill task. Even the tyres were starting to overheat and a couple of times I got a bit out of shape on the fast exit of Gerrard's.



