# 10to (-) 1771

A Moto Guzzi Le Mans is the archetypal Seventies Italian superbike. These days they're a reliable classic bargain too

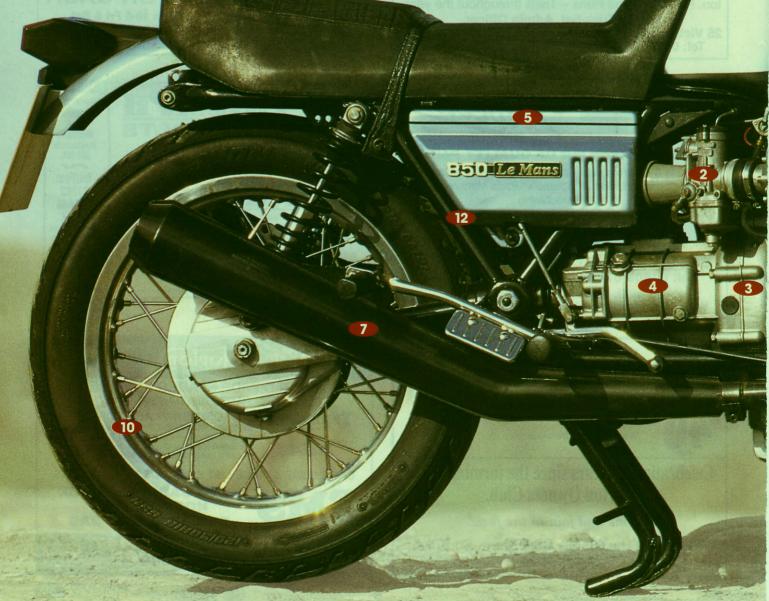
Words and pics, Mac McDiarmid

- 1 The 90-degree V-twin engine came from a tracked military vehicle. Ruggedness and simplicity comes from one-piece crankcase, plain main bearings and big-ends. Pistons, conrods and big-ends can be removed with engine in situ.
- 2 Twin 36mm Dell'Orto slide carburettors (40mm from MkIII) with accelerator pumps and open bellmouths only on MkI/II - fit filters if you value your bores.
- 3 Clutch has twin friction plates driven by heavy ring gear on rear of crankshaft. Heavy action but largely trouble-free - a stripdown requires engine removal.
- 4 Five-speed gearbox with constant mesh helical gears running in their own oil. Shaft final

on kit is a good retro-fit. Electronic ignition is money well spent.

6 The duplex steel cradle frame is heavy but strong and stiff. Both lower rails detach to aid engine removal (you actually lift the bike off the engine). Taper-roller swinging arm bearings are

drive makes gearchanges fairly slow. Lightening a bonus as a result of shaft drive. the flywheel helps. Matt black exhaust of Le Mans MkHII 6 Electrics give problems. Mkl switchgear was looked and sounded racy but tacky and regulator/rectifiers play up. The 1989rotted. Several race pipes (notably LaFranconi 'Riservato







VIONEOM CUPAA

**Chassis:** tubular steel duplex cradle, 35mm telescopic front forks, rear swinging arm with twin shocks. Tyre sizes: front 3.50 (or 100/90) x 18in, rear 4.10 (or 110/90) x 18in. Brakes: front 300mm twin disc, rear 242mm disc (linked).

**Dimensions:** dry weight 437lb (198kg), wheelbase 58.4in (148.5cm), seat height 29.5in (74.9cm), fuel capacity 5 gallons (23.

Performance: claimed power 81bhp@7600rpm, torque 56.4lb-ft@6600rpm, top speed 130mph, SS¼-mile 13s@105mph, fuel consumption 38mpg.

## **History**



Big carbs, big cylinders, Heath Robinson gear linkage - that'll be a Guzzi then.

MOTO GUZZI'S 850 LE MANS DEBUTED at the 1975 Milan Show. Available in ice blue matelliant or bright red, the long, low 'Lemon' was a sensation. With a claimed 81bhp, bags of torque, great brakes and racy styling, the Guzzi's so-so finish, shaft drive and 'Italian' electrics were necessary evils to most owners. The 130mph top speed from a pushrod twin and impeccable high-speed handling made up for most failings. For 1977 the Le Mans got

Although it sold well, Guzzi launched the altogether less sexy MkII in 1978. In bright blue or red, it had the Spada's clocks, a brake fluid warning light, and the front calipers were mounted behind the (black painted) fork sliders. Internally, it was little changed. Later examples had a bigger 32Ah battery and, later still, Nigusil liners, Paioli shocks and air assisted forks. There was also a UK only black/gold version built for Coburn and Hughes.

durable seat, and new rear light.

The 1981 Le Mans MkIII was more angular waith the nown afrimiling square whiter topend. There was a half fairing, new seat and 5.5 gallon (25 litre) tank, better air filtration and a chrome-plated exhaust. Compression ratio dropped to 9.8:1, but claimed power rose 3bhp. Aluminium rocker supports allegedly



## On the road with a Moto Guzzi L

IN ITS DAY THE 850 LE MANS WAS astonishingly quick. It still is thanks to a superbly punchy, long-legged lump that's never happier than towing a giorious wall of V-twin sound at six grand plus in top gear.

And then there's the chassis – as massively reassuring through high-speed sweepers as it is cumbersome around hairpins. But riding one slowly is simply bad form anyway.

weight – over 480lb with its generous five gallon tank fully fuelled. This is a big lump to throw around. Fortunately, much of the weight is carried quite low (at 29½ inches the seat must be the lowest on any superbike), but brisk changes of direction are not a Le Mans' forte.

Ergonomically, the Le Mans is slightly strange. Footpeg-to-seat layout suits short riders, while seat-to-handlebars dimensions favour taller spec-

## What the experts say about the Le Mans

#### Amedeo Castellani

of Raceco UK, Suffolk

considers the Le Mans "inherently reliable, although I always fit electronic ignition," he says.

"You must empty

the sludge trap every 60,000 miles. Do that, use a good semi-synthetic oil and it'll last for ever. Customers bring their bikes back every 60,000 miles for a re-ring and new big-end shells if necessary. I don't expect to see them again for another 60,000."

Among the host of goodies Raceco sells, the 950cc Gilardoni conversion, comprising Nikasil barrels with cast Aso pistons, is one of the most popular for the 850 Le Mans. Raceco have sold "a lot of these, and we've never had

one back. Ever. With an SS cam [£180] and a few other bits, this will take genuine rear wheel nowartram 55ta oraward 2066an

#### **Roy Armstrong**

Avon Roadrunner/Bike Production champion, 1977, now boss of Ducati specialists Italsport in Bury, Lancashire, Roy always raced with the brakes delinked, but concedes that some of his opponents were fast with the standard set-up. "The linked set-up was especially good in the wet" he recalls

The shaft, too, could be a blessing."You had to get used to the way the rear end rose on acceleration and 'ride round it'. But you could use this to increase ground clearance, so it was useful, too," he says

Less helpful were the standard 35mm cartridge forks. "Useless. And as for those skinny 'bicycle pumps' inside, they were even worse."

## Dealers...

#### **Brian Wilson**

Wessons Motorcycles, Brighton. Brian has no illusions about the

'Mandello tractors', but he almost looked shocked when I asked about their major weaknesses

"They don't really have any - not like the V50.

You can write pages on their faults. On the big twins the cranks and big-ends go on forever."

Sheer ruggedness no doubt accounts for the popularity of Guzzis as truly practical classics. Yet even that is changing.

"Over the last couple of years, more people are looking for completely original Le Mans, especially the Mkl. You even get people after original rubber brake hoses. Examples still with linked brake, systems, are desirable for originality even though some people hate 'em."

## Mans

good and with the right choice of pads they can do anything the tyres can handle. Most riders either love them or hate them. Magazine test riders, who jump almost daily from machine to machine, tend to fall into the latter category. Long-term owners are more forgiving. It's the same with the shaft drive. Changing down four gears as you charge into racetrack hairpins has the big twin nodding at the trackside marshals with every blip of the throttle. Even riding rapidly on the road, you have to take account of the bike rising on the throttle and tollinging the

Loads of MKIs are converted MKIIs - just

Shipley (01274 591017). £3500 to you sir

including the original cast wheels.

like this one on sale at Cobb and Jagger in

change against the longitudinal crank. Ride within its constraints, and the Guzzi's happy. Fight it, and it might just bite back.

#### rearsets. I delinked the surprisingly good brakes which I now regret. A Piranha electronic ignition is the best mod I've made. I still can't get over how skinny the tyres are."



## Prices and quide to buying

Condition, authenticity and completeness govern prices. Originality is more important than mileage (within reason) because of the model's mechanical durability.

Mkls command top dollar - up to £5500 in mint condition dropping to £2000 for a ratty

converted to MkI replicas. Pay £2000 - £3500.

MkIII prices are similar to the MkII. Both 1000cc models go for between £1750 and £3000. Deduct £300 for a 16in front wheel. Frame numbers: MKI: VE11111-VE13040. MKII: VE13041-VE24086, MKIII: VF11111-VF20700. Le Mans 1000: VV11111-on.

n'todinetor, eninomentalistican Engine and frame numbers never match.

### **Useful contacts**

Baines Racing rebuilds, unleaded conversions and tuning. 01327 858510. Fax: 01327 858250 Cobb & Jagger Shipley. Tel: 01274 591017 Corsa Italiana: spares, rebuilds and used

Guzzis. 0181 239 7012. Fax: 0181 239 6987

Motomecca new spares and accessories. 01202 823454. Fax: 01202 826844. e-mail: motomecca@dial.pipex.com

Motori di Marino used classic Guzzi specialist. rebuilds and restorations, hard-to-aet parts. 01798 813260. Fax: 01798 812810

NBS (Nigel Billingsley) Guzzi parts, stainless

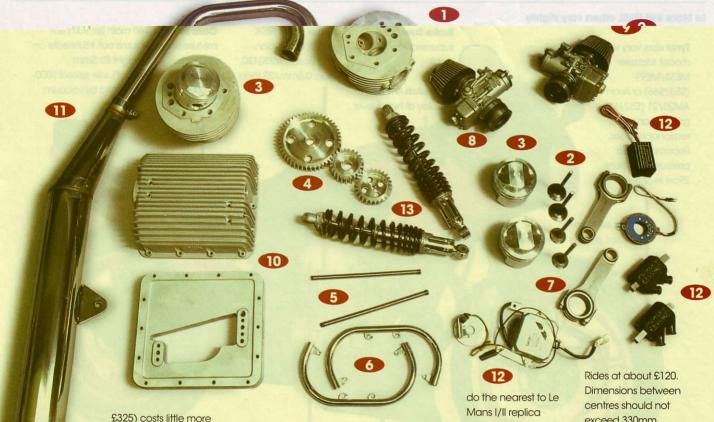
pattern parts, and rebuilds. 0958 584889 Raceco tuning goodies, engine builds, leadfree conversions, big bore kits and more. 01728

602101. Fax: 01728 602103 Spares GB (Bernie's) huge stock of genuine Guzzi parts and aftermarket items. 0181 540

7155. Fax: 0181 288 0048 Wessons Motorcycles Guzzi used bikes and spares emporium, and new stuff, too. 01273

621392. Fax: 01273 625145 Contact Developments Dell'Orto spares. 0118 943 180. Fax: 0118 943 1190

## Improving a Le Mans



#### Cylinder head

A lead-free conversions' hardened exhaust seats save money on fuel and hold their profiles far longer. Shop around for the best price

Twin-plug heads improva e calcutiano bottom-end pertormance and tuel economy (£110 from Raceco, including 10mm plugs but different coils/HT leads may also be needed). Most electronic ignitions are compatible

#### **Valves**

Raceco's Austenitic competition valves at £22 apiece are hard tipped, Tuffrided and cheaper than the original items.

#### Pistons/bores

A 950cc Gilardoni Nikasil kit (Raceco,

than a rebore and original pistons. Other kits offer capacities up to 1162cc with stroked cranks, or even more for a Le Mans 1000. Tricker still are Wiseco forged pistons. 90mm gives 992cc for £295, plus £100 for exchange barrels

#### Countaine

 Spares GB's automatic camchain tensioner is much better than standard at just £20.56. Better still at reducing valve and ignition timing flutter are straight-cut aluminium cam gears (Raceco, £150).

#### **Pushrods**

 Stiffer than standard, high-grade chromoly rods (£100, Raceco) allow smaller tappet clearances, recommended for highly tuned engines. Aerospace spec alloy rods (£70 exchange) are a cheaper alternative.

#### Crashbars

Rocker cover crashbars are cheaper than new cylinder heads, and less ungainly than full bars. £24-plus, several suppliers

#### Carrillo CONTOOS

These Americanmade rods are overkill for standard engines, but they're lighter than stock and significantly cheaper, too, at £315 pair.

#### **Carburettors**

**8** 40mm Dell'Orto pumpers are standard on 1000 Le Mans and unnecessary on a stock 850, but can improve breathing on highly tuned examples - £300-plus. Shop around. And vou don't have to endure Guzzi's

endemically heavy throttle. Lighter slide sprinas are available.

#### Air cleaners

If it's unfiltered, K&N filters (around £33) will reduce bore wear and can make the carbs easier to set up

#### Sump extension

 A sump extension िं कें/प्रं, timeda as standard from MkIII on), doesn't increase oil volume. Giving more air space it reduces crankcase pressure and allows early models to run cooler, Raceco's ventilated extensions (pictured, £98) further improve cooling on highly-tuned engines

#### **Exhausts**

Stainless systems (various suppliers, £350-plus) usually cost less than original, and what you lose in originality you'll gain in longevity. Wessons systems at £410 (£436 with balance pipe). Matt black is either £5 worth of nasty paint, or 'Stayblack' hightech military coating from Ionic Surface Treatments (0121 558 2951) at around £60.

#### **Ianition**

Electronic ignition (Piranha £70; Lucas "KITA 3284", DYNA 3212U) offers more dependable sparks, improved running and almost zero maintenance. 1989-on bikes have solid-state, brushless Saprisa AC generators with combined voltage control. Can be retrofitted to early bikes for £185.

#### Shock absorbers

 A wide range is available, from budget R&Rs at around £60, through gas-assisted Hagon's at £86 to Koni Dial-aexceed 330mm

Camshaft Raceco SS2 cam (£125 exchange) improves top end without crippling torque. Dr John cams (£260) are more radical and come in street or race profiles.



#### Miscellaneous

Flywheel lightening improves throttle response and gearchange for £140 (Raceco). Tarrozzi rearsets (£133, Spares GB) increase comfort as does a better seat (£127, Spares GB). Braided brake hoses (from £45) improve power but at exaperaof feel.

#### **ULTIMATE BUYER'S GUIDE**

## Moto Guzzi Le Mans service chart

