Minutes of the Motorcycle Development Meeting

held on Monday, 2nd April 1962.

Present: -

Major V.T. Mountford

Mr. J.J. Booker

Mr. G.H. Baker Mr. R. Thomas

Mr. N.A. Wilson-Jones

Matters srising:-

1. - Spindle Mounted Front Mudsuard: -

Mr. Baker reported that the parts for the new type spindle mounted front madguard, which are being made in the toolroom, would be fitted to a machine by Friday, 6th April. Immediately this is done, the machine is to be sent to M.I.R.A. for test - by the 9th April.

2.- 750 ee Engine:-

we have had the first four production engines from Westwood, and one of these is now undergoing lubrication and power tests. The original experimental 750 co engine has been rebuilt, and is undergoing road test in conjunction with the five speed gearbox.

3.- Res Heavy sight Frame: -

It was decided that the frame should now be assembled.

A. Silencing: -

Er. Baker reported that production of the Sumber 2 Silencer is proceeding, and this type of ellencer will be adopted on the Super 5 at the very earliest opportunity, and as soon as atoms permit on the Grusader Sports. Er. Wilson-Jones stated that the Dawes Roise Meter would be tried as soon as possible.

5 .- Grusader 350:-

The grankpin having broken on this engine, it appeared to be a clear case of fatigue fracture starting from the drilled oil hole in the shank of the pin. After some discussion it was agreed that the oil hole should be moved 5/32" away from the shoulder thus necessitating a revision of the drilling of the fly sheel. To use up those castings which have already been cast,

Mr. Baker agreed that brass should be added to make a centre bosh for machining. On future supplies the castings are to be modified to take the centre.

Referring to the Outrigger bronze bush, shich had shown signs of coming loose in the prototype, it was agreed that one of the main reasons for this component coming loose was that there is insufficient metal in the crankcase casting to support this bush fully. Therefore it was agreed that the originally suggested modification to the crankcase should be made - i.e. that the cored hole should be reduced in size on the casting. This will enable a thinner bush to be fitted, thus obviating, it is hoped, any chance of a recurrence of the trouble.

It was agreed to check the engine on the bench when reassembled to endeavour to ascertain whether slightly less advance could be used without affecting performance.

6. .. 175 CO SOLIDE: ...

Mr. Thomas reported that due to various extraneous influences, he had been unable to keep to his originally promised schedule. He however, now estimates that the drawings should be completed by 20th May. Major Mountford reitersted the extreme urgency of the 175 ce machine.

7 - The Scooter:-

It was agreed to dispense with the oil measure on the filler cap.

S. - Eatch Teste: -

Er. Booker recommended that we should fit a 3 km plug on the Super 5 and Gruender Sports as soon as tests are completed with this plug in a standard Grusader Sports to ensure that no ciling takes place.

9.- Over oiling on 250 og Engines:-

In view of the number of complaints received of excessive oil consumption on 250 cc machines due to oil being thrown out of the breather, a number of tests have been carried out over the last wonth - starting with the assumption that if the oil was coming out of the breather there was most likely a build up in the crankcase. A number of different approaches of this were made:-

(a) Pumps

(b) Fiston and rings

(c) Breathing

Dut it now appears that there is a distinct possibility that oil is being thrown directly into the breather divity through shat is normally called the drain hole. This was found on the casing to have increased in disc by some 1/32 on the new furches crankcase. Tests have been run on one machine with this hole plugged with weld, and too drain holes drilled one on that side out of line with the big and. The resulted this test have been extremely promising, and the second engine is

10. Sports Airflow: -

er. Booker was asked to ring Mr. Devey regarding his promises of delivery.

ll. Sibe Self Starter:

At the next Meeting a decision will be made regarding this.

12. Wolybdenum Pistons:-

Barrels for the solybecome pistons are to be proceeded with as and when possible.

LJ. - Miller Lighting Cal: -

Tests are to continue with this equipment.

Booker.)