MICRON MAN - *ALPACA FIBRE ANALYSIS*

Client
Wangurra Alpacas
220 Schoolhouse Rd
Woori Yallock VIC 3139

Date Sample Taken - 01/11/2020

Test No. SPH01204

Wool Growth - months

Contact :- Micron Mar
Our Phone (08)94181733
P.O. Box 1423
Bibra Lake W.A. 6965

Group ID. Full Group

Age at Sample Date - months

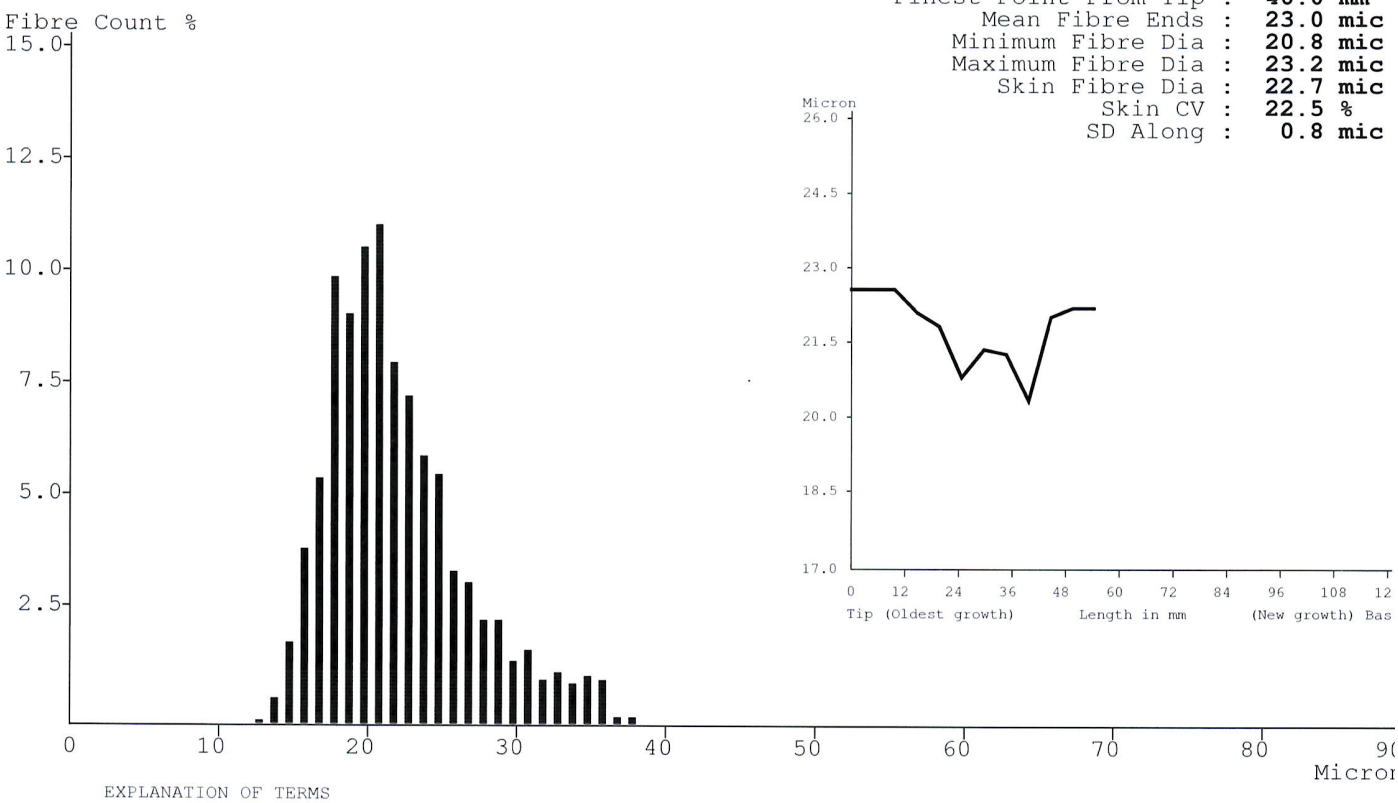
Name : **MAIN ATTRACTION**

IAR Number :	**164582**	Micron :	**22.2 mic**
Micron Deviation :	**+0.9 mic**	SD :	**4.6 mic**
>30 :	**7.3 %**	CV :	**20.7 %**
		CE :	**4.4 %**
		SF :	**21.6 mic**
		CF :	**92.7 %**
		CRV :	**43.4 Deg/mm**
Total Fibres counted :	1246	SDC :	**33.0 Deg/mm**

OFDA2000 Alpaca Calibration : Trim High ON
GCF @ 20 um : 0.6 um

Micron Profile Graph

Staple Length :	**55.0 mm**
Finest Point From Tip :	**40.0 mm**
Mean Fibre Ends :	**23.0 mic**
Minimum Fibre Dia :	**20.8 mic**
Maximum Fibre Dia :	**23.2 mic**
Skin Fibre Dia :	**22.7 mic**
Skin CV :	**22.5 %**
SD Along :	**0.8 mic**



EXPLANATION OF TERMS

FD : Overall average Fibre Diameter measured in micron.

SD : Standard Deviation, measures the distance either side of the average fibre diameter where approx 2/3 of the fibre diameters lie.

CV : Coefficient of Variation = SD as a percentage of the average micron

CE : Coarse Edge. The percentage of fibres that lie over 10 microns greater than the average fibre diameter.

CF : Comfort Factor. The percentage of fibres less than 30 microns

SF : Spinning Fineness. Combine Micron & CV to a single number to represent the spinning quality expressed in microns.

>30 : The percentage of fibres greater than 30 microns.

CRV : Fibre Curvature is the average curvature or bending over one millimetre length. It is related to crimp frequency and is measured in degrees per millimetre (Dg/mm).

SDC : Standard Deviation of Curvature is the variation of curvature for the above measurement. SDC is related to crimp definition and measured in degrees per millimetre (Dg/mm).

TRIM : If sample is tested with Trim High ON, then the result is trimmed to 4 SD's above average FD. If sample average FD=22um and SD=5um then Trim High ON = 22+20=44um. Measurement above 44um is removed. Trim High OFF means no coarse tail trimming on the sample tested that gives a closer result to other instruments.

GCF : Grease Correction Factor is the FD adjustment needed when measuring greasy Alpaca fibre - @ 20um-0.6um = 19.4um.