cc: V. J. Labrecque
L. S. Dymitro
P. Olsen

cc. SML JJR

February 6, 1968

To: J. G. Belter

From: J. A. Ulrich

SUBJECT: VICTOCOR 300 - Customer

re: Caterpillar Tractor Company

The piece of ground Victocor 300 Caterpillar gasket which you attached to Mr. V. J. Labrecque's copy of your letter of February 1, 1968, to Mr. L. S. Dymitro was analyzed by this Department. The following observations were made.

The average thicknesses of the various components are approximately as follows:

Ground facing	.017"
Core	.008"
Unground facing	.037"
Total Gauge	.062"

This was confirmed by weighing equal areas of material peeled from opposite sides of the core; the weights were in the same ratio as the above gauges.

The above shows that the unground facing is .004" thicker than the maximum gauge allowed by Factory Standard #366 (.033"). This explains why the ground facing is so thin; since the facing on the other side is too thick, the grinding of the ground side caused removal of material much closer to the core than would normally be expected.

If the facing on the ground side would be of proper gauge and not exceeding the maximum limit, then for a final product gauge of .062", the thinnest the ground side could possibly be is seen mathematically to be .062" - (.008" + .033") = .021", while the thickest the ground side could possibly be is .062" - (.008" + .027") = .027".

It can also be calculated mathematically that if the Factory Standard were followed, the amount which would be ground off one side would be .002" to .009", depending on the gauges of the two facings. However, since the ground facing on the present sample is only .017" thick, at least .010" to .016" must have been ground off (if it were within tolerance of

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