

Tall Oil
Oil Extenders
VC-5269

"INDEXED"

Je 25 '53

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NOT FOR CIRCULATION

Mr. R. B. Davis, Flint
Mr. N. E. Diehl, Wilm. D-6082
Mr. J. P. Elliott, Wilm. D-8026
Mr. J. B. Bullitt, Lab.
Mr. J. W. Iliff, Lab.
Mr. C. R. E. Merkle, Lab.
Mr. H. G. Stauffer, Lab.
Mr. Stuart Graves, Lab.
Mr. S. L. Godshalk, Lab.
Mr. H. R. Young, Lab.
Mr. A. L. Jordan, Chicago
Mr. H. F. Ether, Lab.

Philadelphia Laboratory
April 2, 1946

MEMORANDUM REPORT NO. M-34

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TALL OIL VARNISHES

This will advise that we have developed a 25 gallon tall oil varnish based on Cooper's Creek Refined Tall Oil which appears comparable in film properties to VC-5269, a 25 gallon vehicle for floor enamels. This experimental product is a maleic modified tall oil esterified with P.E. and subsequently treated with para formaldehyde to produce a varnish of body F, color 6.3, solids 52%, and acid number 18.2.

We have checked this vehicle in Dark Stone Floor Enamel and find it to be comparable to our present floor enamel except for having a slightly slower initial dry. Overnight dry, however, is satisfactory. Practical wear tests have been started and after one week the tall oil vehicle is equal to the control. A release letter can be written on this product for use in 402 Line when it seems desirable to do so or when a supply of tall oil is available.

The Purchasing Department is attempting to determine the availability of tall oil at this time, although the market is very tight. We have information that Sherwin-Williams and Pittsburgh Plate Glass have been consuming this raw material in large quantities for some time. We have now pushed development for the use of this product to a suitable end point to take advantage of its non-reportable feature and its money savings.

In view of the critical oil situation at this time, it is highly desirable that a great deal of consideration be given to possible outlets for this material. The oil savings, of course, will depend upon the amount of tall oil available and the money savings will be appreciable, the varnish described above (PVC-P-60307) having a raw material cost of 50¢ compared to raw materials cost of 76¢ for VC-5269.

About 3 quarts of this varnish is available for any formulation work which is desirable and further quantities can be made up if required. Details concerning this work may be found in Notebook #2936, pages 88-114.

PHILADELPHIA LABORATORY

G. H. Wescott
G. H. WESCOTT

GHW:IWB

P.S.:

Information just received from Works Supply indicates that we can probably obtain 3 or 4 tank cars per month and we should therefore push our exploitation.

G.H.W.