

General Trade Sales
1013-C

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Philadelphia Laboratory
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MEMORANDUM REPORT NO. M-76:

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JB SPECIAL OIL IN TRADE SALES OIL COLORS NOT FOR CIRCULATION

This report will place on record our efforts to use H-594 JB Special Oil in Trade Sales oil colors as a means of reducing the reportable oil content of these products during a period when oils were under quota.

The substitution was made in 501-909 French Ochre in oil, substituting JB Special for the entire amount of H-253 Raw Linseed Oil in the formula. After one week a thin, tough skin was present on our closed can shelf sample involving the JB Special formula whereas the raw oil formula showed no skin. At three weeks the JB Special formula showed a tough, heavy skin even in the closed container whereas the raw oil showed only a very soft oil skin with the loose lid test but no skin with the closed can.

In a similar experiment involving the substitution of VO-5053 Bodied Oil/H-262 Heavy Mineral Spirits - 2/1 - as a replacement for the raw oil, we found that a tough, heavy skin developed in a closed container after seven weeks in the case of the bodied oil formula but no skin was present in the case of the raw oil formula. Since the bodied oil formula did not have the characteristic raw linseed oil odor, we substituted one part of the bodied oil with raw linseed oil but found the same skinning characteristics as was evident by the straight bodied oil.

These results indicated that neither of these experiments would produce a product satisfactory as to skinning resistance. The introduction of some anti-skinning agent might offer a satisfactory solution but no work is scheduled to try out this procedure.

Details may be found in Notebook #2936, pages 128 to 130, 160.

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