Monsanto

FROM (NAME & LOCATION) P. G. Benignus - B2SC

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SUBJECT : CABLE OILS

REFERENCE :

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As preliminary consideration has been given to Texas City alkylate as possible oil for cables and as I have not seen clear definition of the cable oil market, I sought to better understand this.

This is simplified by the fact that most cable oil is supplied by only two companies, namely Sun Oil Company and Mobil. Each supplies a distinctly different segment of the cable oil market.

As Monsanto's Texas City materials are the low viscosity type oils, it seems well to point out that this type oil relates to the small portion (by far) of the cable oil market, e.g.

168,000 gal./yr. low vis. oil vs. 1 to 2 million gal./yr. high vis. oils.

Sun Oil Co.

Sun supplies most of the high viscosity oils at about 70¢/gal.

a) 2,000 to 3,000 sec. viscosity oil

This is used by the cable maker to impregnate the paper insulation of the high pressure (up to 300 psi) and high voltage (350 KV) type cables called the pipe type. Sun's product for impregnating the paper is called Sun XX.

b) 750-800 sec. viscosity oil

This product, called Sun #6 Oil is documented as ASTM D1819. It is used to fill the cable pipe into which the above described cable has been inserted.

The market need for these two Sun Oil Co. products is quite large at one to two million gallons per year.

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