

Louisa - May 28, 1942.

THE DETERMINATION OF NEUTRAL OILS IN PHENOL OILS AND PHENOLATE SOLUTIONS

50 grams of the sample of phenol oil is treated with 360 cc. of 10% sodium hydroxide solution and 500 cc. water and is placed in a flask of a capacity of about 2,000 cc. The flask is equipped with a condenser and receiver similar to that used in the determination for crankcase oil dilution by the ASTM method. The mixture is brought to boiling and the neutral oils are distilled over together with the water and are condensed in the calibrated receiver. The neutral oils collect above the aqueous layer which contains cymenol either suspended or in solution; the condensed water is continuously recycled. The volume of neutral oil is first read after 30 minutes and again after 45 minutes. After a total boiling time of 60 to 100 minutes the readings are usually constant.