St. Louis Org. Res. Dept.

February 3, 1964

ASHLAND OIL
BIPHENYL ANALYSIS

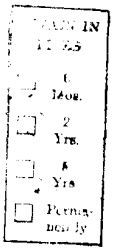
O. DeGarmo - Res-1
H. L. Hubbard - "
W. E. Koerner - Res-2
R. W. Bucknell - TT Bldg.
R. S. Wobus - G.O.

Dr. B. Y. Abadir

GENERAL OFFICES

The sample of Ashland Oil biphenyl forwarded to us recently by Mr. Dolin of Anniston has been analyzed by gas chromatography with the following results:

Component (listed in order of elution)	Concentration (peak area %)
Naphthalene	1.0
A	0.7
B	11.3
Biphenyl	12.2
C	9.1
3-Methylbiphenyl	41.3
4-Methylbiphenyl	7.0
D	5.1
E	1.1
F	5.8
G	0.6
H	0.05
I	4.6



No o-terphenyl was found in the sample. The chromatographic conditions were not suited for the elution of m and p-terphenyl or any higher boiling components.

No effort was made at this time to identify the lettered components because of the large number present and the low biphenyl content, which I assume makes the sample of little interest. Further identification work can be done if the effort is justified.

E. M. Emery

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