

~~TOG: JCL: ERT: ~~STH~~~~ A.I.O: RF

XF: NONE

TO: Dave Penney-Austin

FROM: T. G. Grumbles

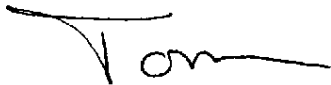
DATE: July 9, 1990

VISTA

Interoffice
Communication

SUBJ: MOLEX RAFFINATE HISTORY

For your information, I've provided some past correspondence from the last time we were commercializing Molex Raffinate. Bill Broddle is the Conoco toxicologist.



T. G. Grumbles

dlj

Attachments

VVV 000013275

VVV 000013276

CONCENTRATION, PPM

105

104

103

102

10

● MENTOR-28

○ DIESEL

▲ MOLEX RAFFINATE

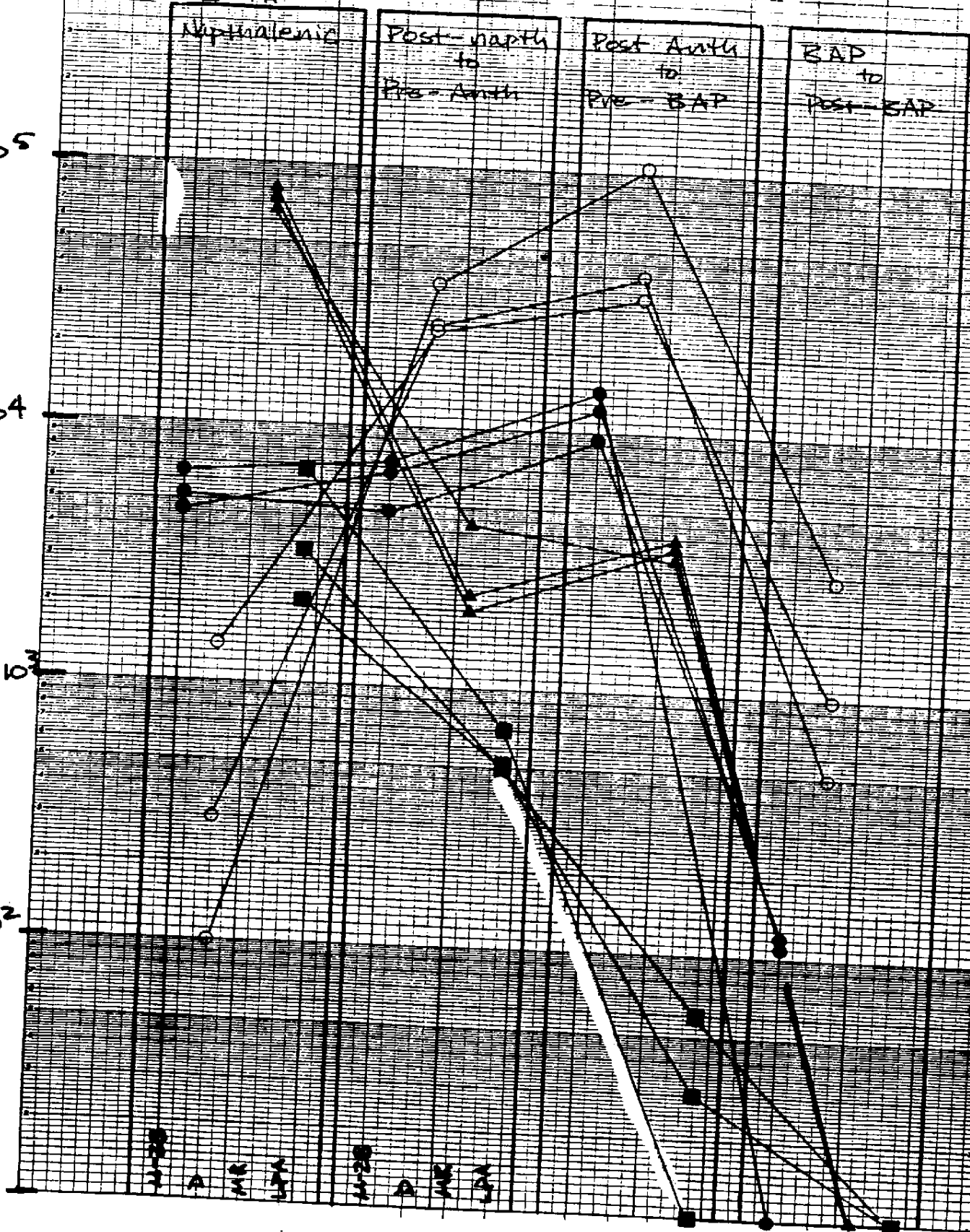
■ LPA

Naphthalenic

Post-naphth
to
Pre-Anth

Post Anth
to
Pre-BAP

BAP
to
Post-BAP



SEPARATIONS ANALYSIS GROUP
ANALYSIS REPORT FORM

1. TO San Francisco
2. SAMPLE MWD Base Oils ANAL. NO. _____ DATE 9-2-83

J. ANALYSIS TYPE:

X-Ray _____ GLC _____ GPC _____ LC _____ TLC _____ Free Oil _____ Prep GC _____

IR _____ PYRGC _____ SA _____ PV _____ RI _____ Coul _____ % Active _____

Other _____

4. ANALYSIS CONDITIONS:

1. naphthalenic area
(as naphthalene)
2. Post naph - pre Anthracene
area (as anthracene)
3. Post anthracene - pre Bap
(as anthracene)
4. Bap - post Bap
(as Bap)

Sample NO.

5168-134-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

Molex
Raffinates

LPA

RESULTS: QUAL _____, QUANT _____, SEMI-QUANT _____

_____% CONF. LIMIT

Component

PPM

Conf. Interval

1

2

3

4

6,500

7,300

14,400

—

4,600

6,600

12,200

100

5,200

4,700

9,400

120

100

36,000

105,000

2900

1435

24,000

40,300

500

300

24,500

33,400

1000

74,800

2,000

3,300

—

79,900

2,300

4,000

—

66,500

4,300

3,700

—

3,300

500

60

—

6,700

200

—

—

2,100

500

20

—

5. REMARKS:

ANALYZED BY

Mamie C. Allen

APPROVED BY

KEY TO ANALYSIS TYPE

X-Ray — self explanatory
GLC — gas-liquid chromatography
GPC — gel permeation chromatography
LC — liquid chromatography
TLC — thin-layer chromatography
Prep GC — preparative gas chromatography
Other — self-explanatory

PYRGC — pyrolysis gas chromatography
SA — surface area
PV — pore volume
RI — refractive index
Coul — coulometry
IR — infrared

VVV 000013277