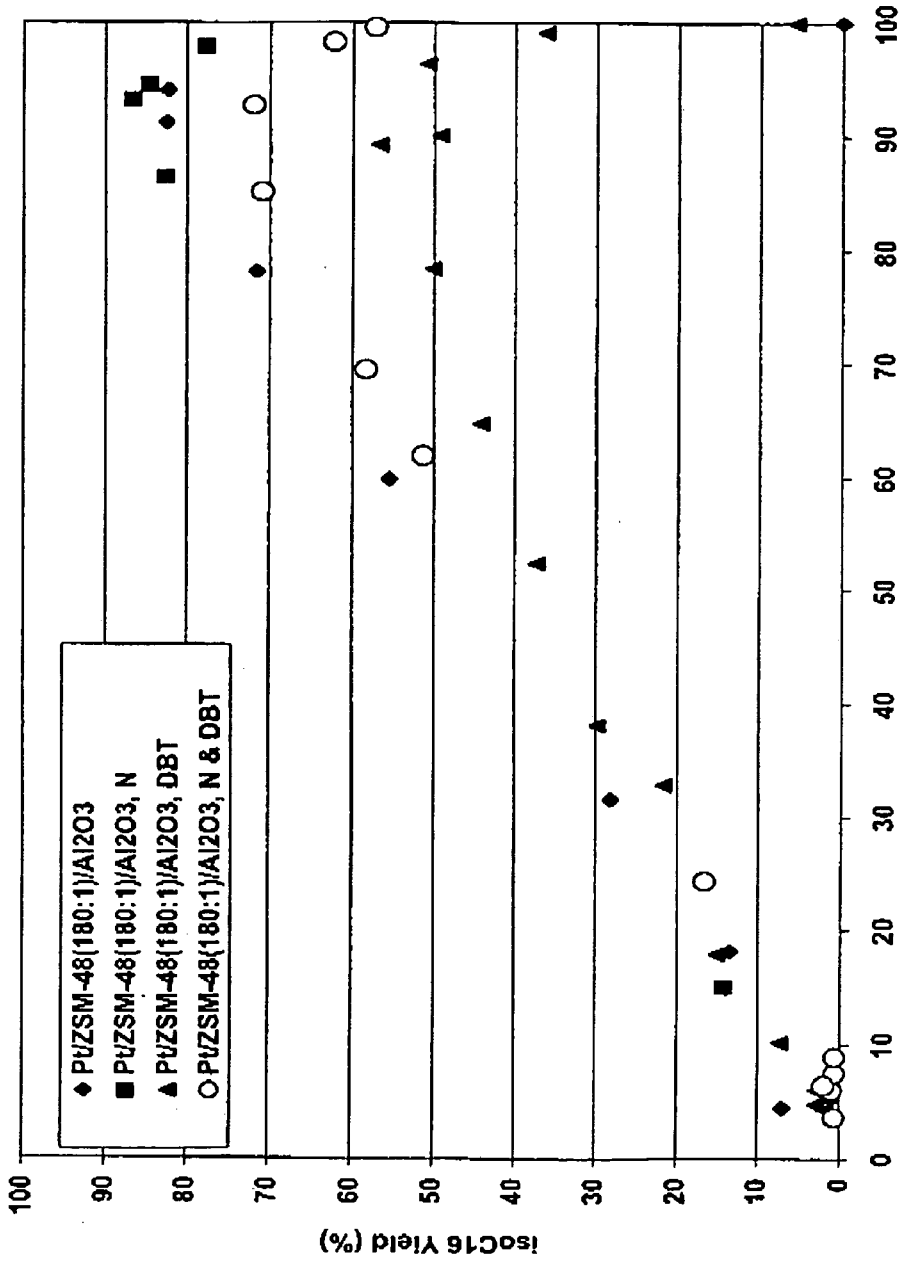
isoC16 Yield (%)
nC16 Conversion (%)
◆ PtZSM-48(180:1)/Al2O3
■ PtZSM-48(180:1)/Al2O3, N
▲ PtZSM-48(180:1)/Al2O3, DBT
○ PtZSM-48(180:1)/Al2O3, N & DBT

FIG. 1

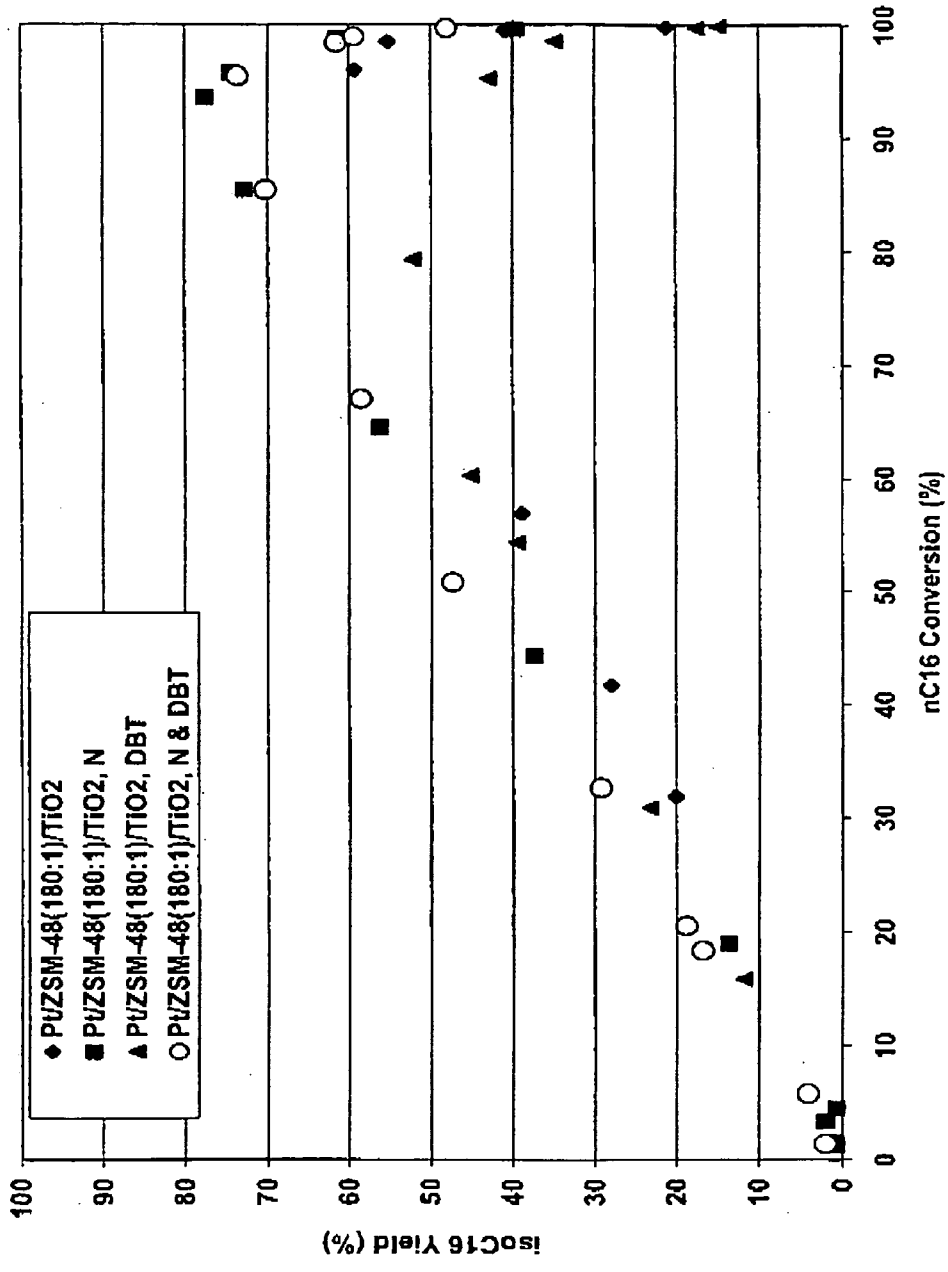
PtZSM-48(180:1)/TiO2
PtZSM-48(180:1)/TiO2, N
PtZSM-48(180:1)/TiO2, DBT
PtZSM-48(180:1)/TiO2, N & DBT
isoC16 Yield (%)
nC16 Conversion (%)
0
10
20
30
40
50
60
70
80
90
100

FIG. 2

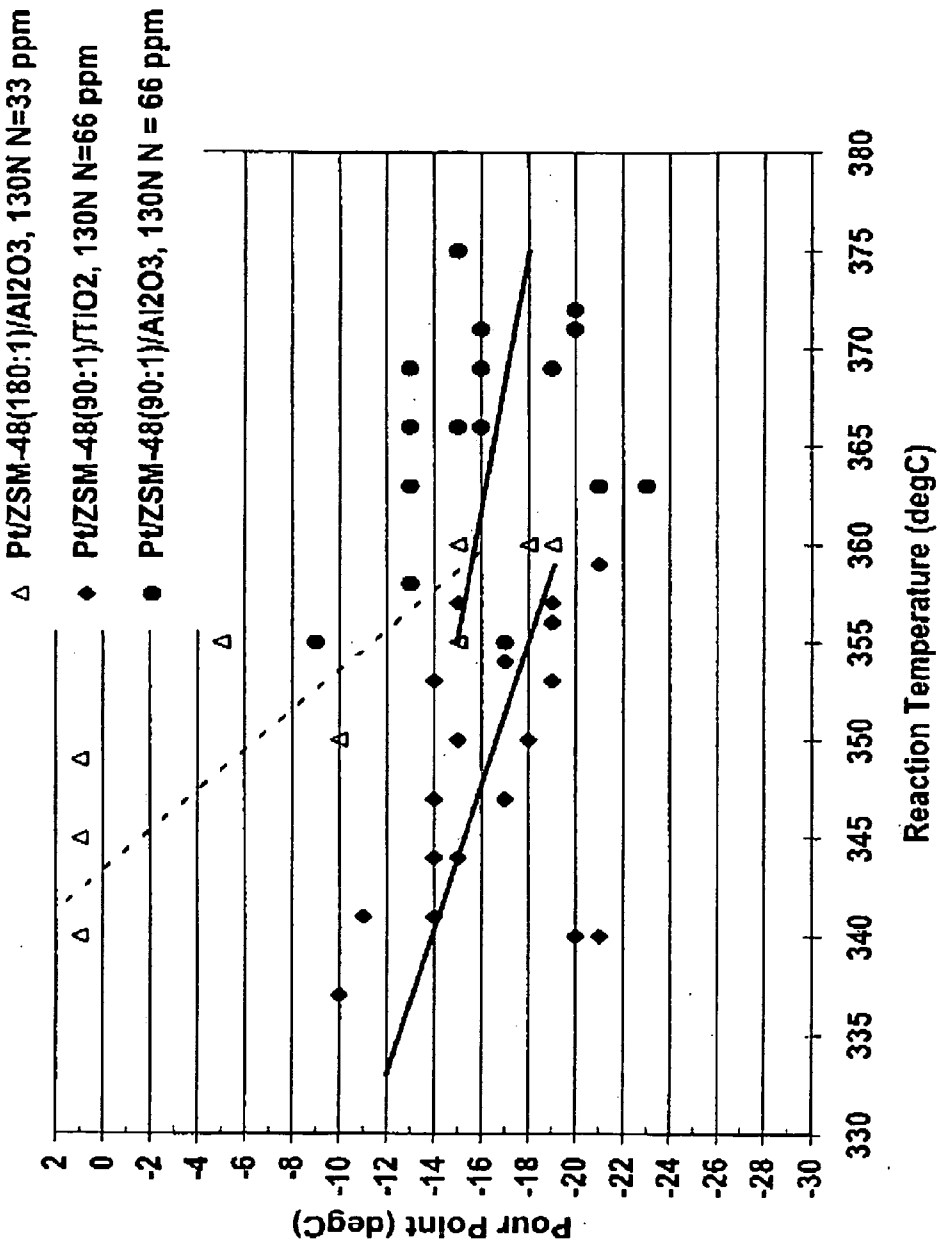
Pt/ZSM-48(180:1)/Al2O3, 130N N=33 ppm
Pt/ZSM-48(90:1)/TiO2, 130N N=66 ppm
Pt/ZSM-48(90:1)/Al2O3, 130N N = 66 ppm
Pour Point (degC)
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
330
335
340
345
350
355
360
365
370
375
380
Reaction Temperature (degC)

FIG. 3

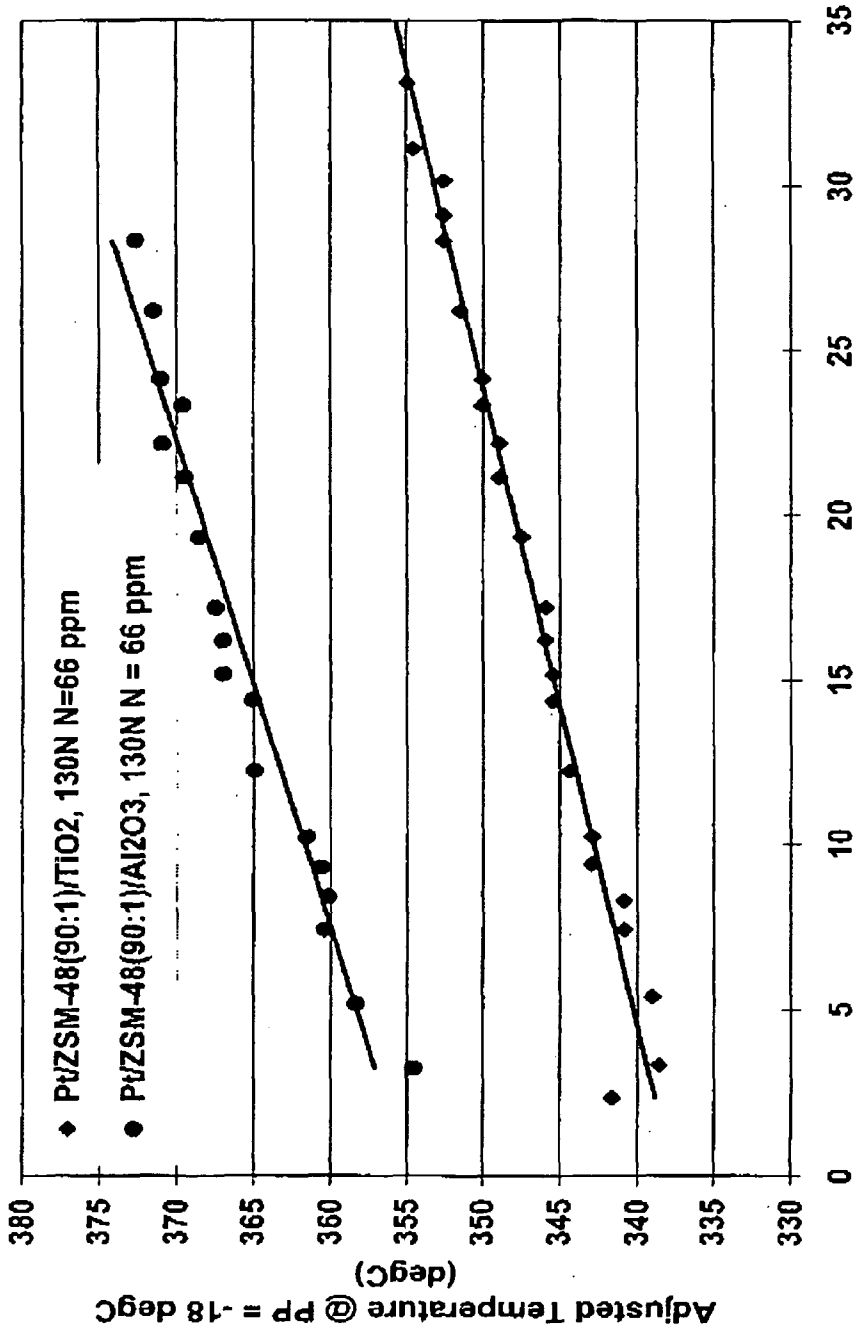
Adjusted Temperature @ PP = -18 deg
(degC)
380
375
370
365
360
355
350
345
340
335
330
0
5
10
15
20
25
30
35
TOS (Days)
Pt/ZSM-48(90:1)/TiO2, 130N N=66 ppm
Pt/ZSM-48(90:1)/Al2O3, 130N N = 66 ppm

FIG. 4

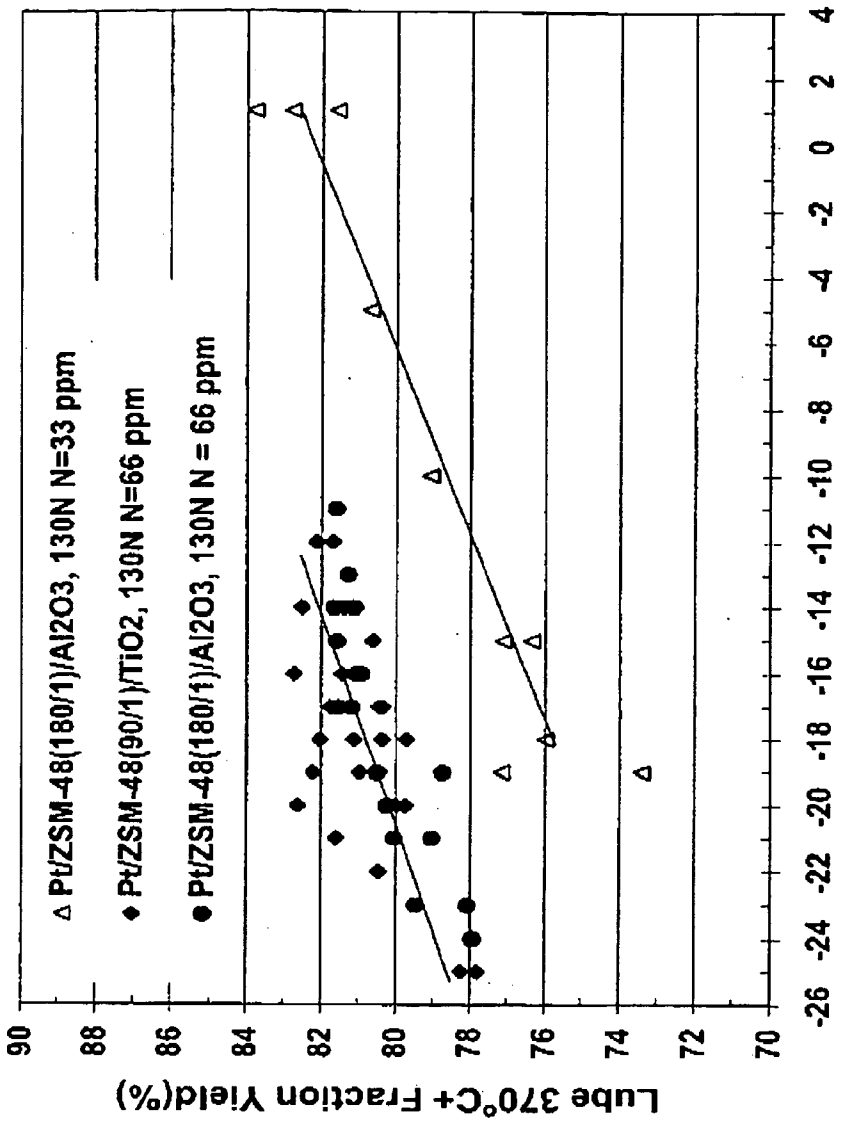
Lube 370°C+ Fraction Yield(%)
90
88
86
84
82
80
78
76
74
72
70
-26 -24 -22 -20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4
TLP Pour Point (°C)
Δ Pt/ZSM-48(180/1)/Al2O3, 130N N=33 ppm
◆ Pt/ZSM-48(90/1)/TiO2, 130N N=66 ppm
● Pt/ZSM-48(180/1)/Al2O3, 130N N = 66 ppm

FIG. 5