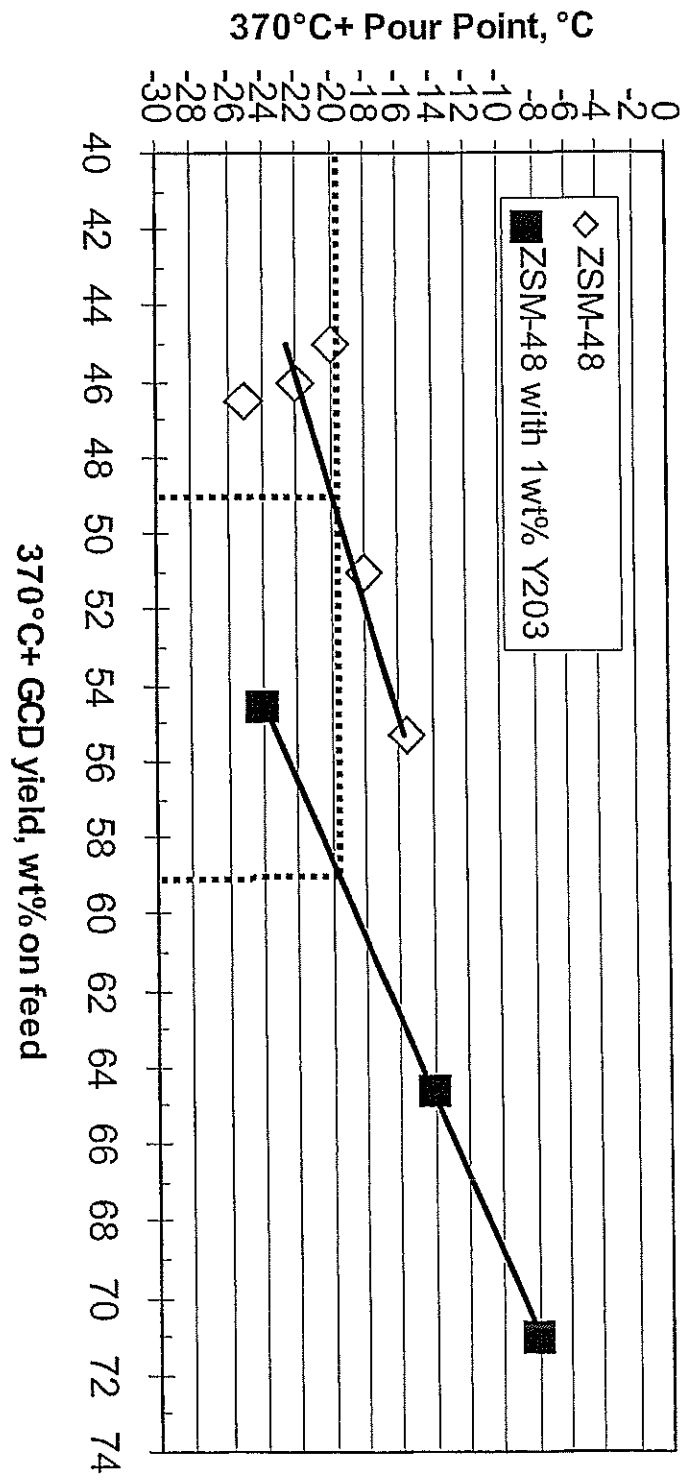


FIGURE 1

Feed : Hydrotreated150N Slack wax

Conditions 1LHSV, 1000psig, 2500scf H_2/b

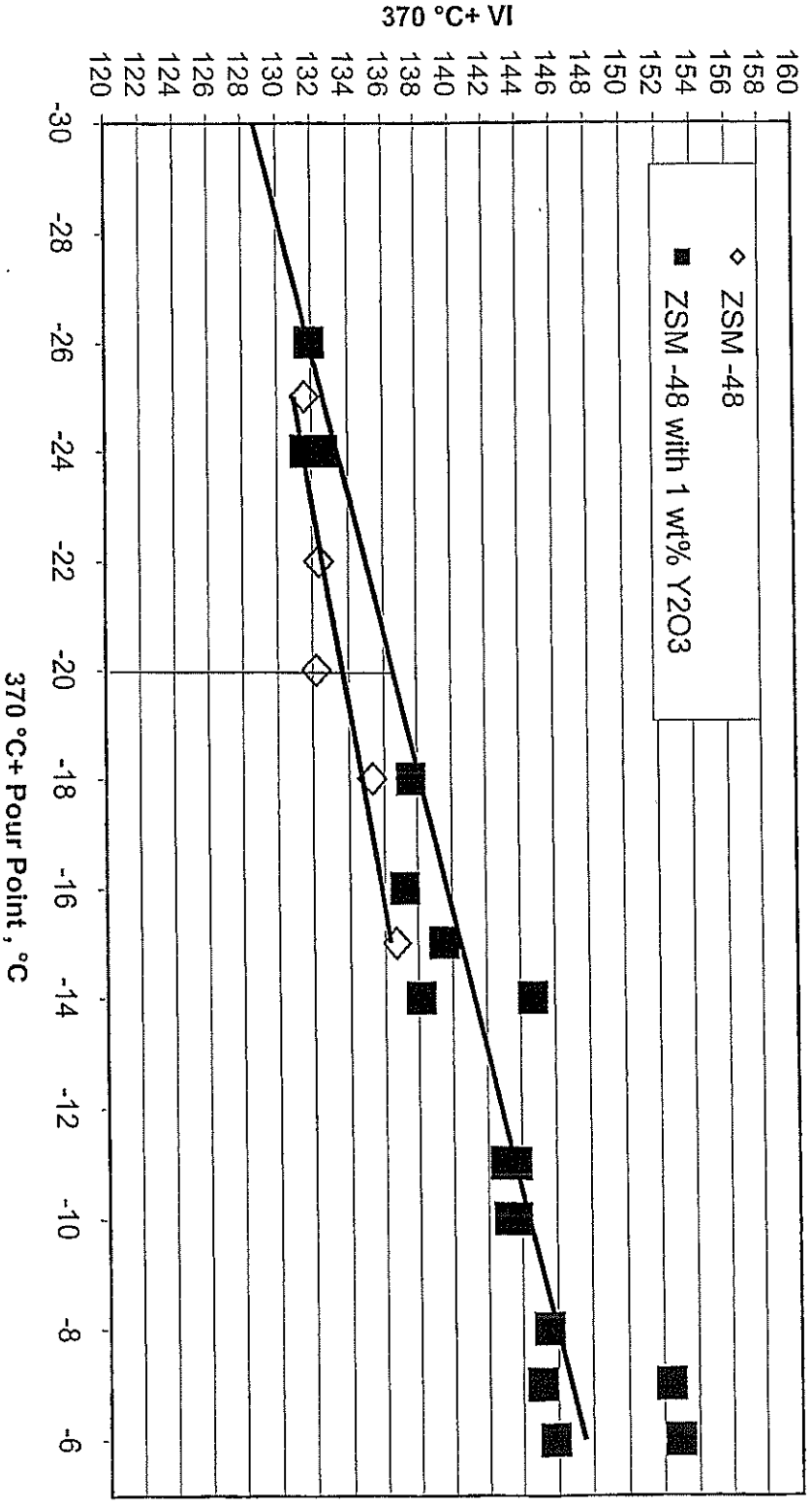

370 °C+ VI
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
128
126
124
122
120
-30
-28
-26
-24
-22
-20
-18
-16
-14
-12
-10
-8
-6
370 °C+ Pour Point, °C
ZSM -48
ZSM -48 with 1 wt% Y2O3
Feed: 150N Hydrotreated slack wax
Conditions: 1LHSV, 1000 psig, 2500 scf H_2

FIGURE 2

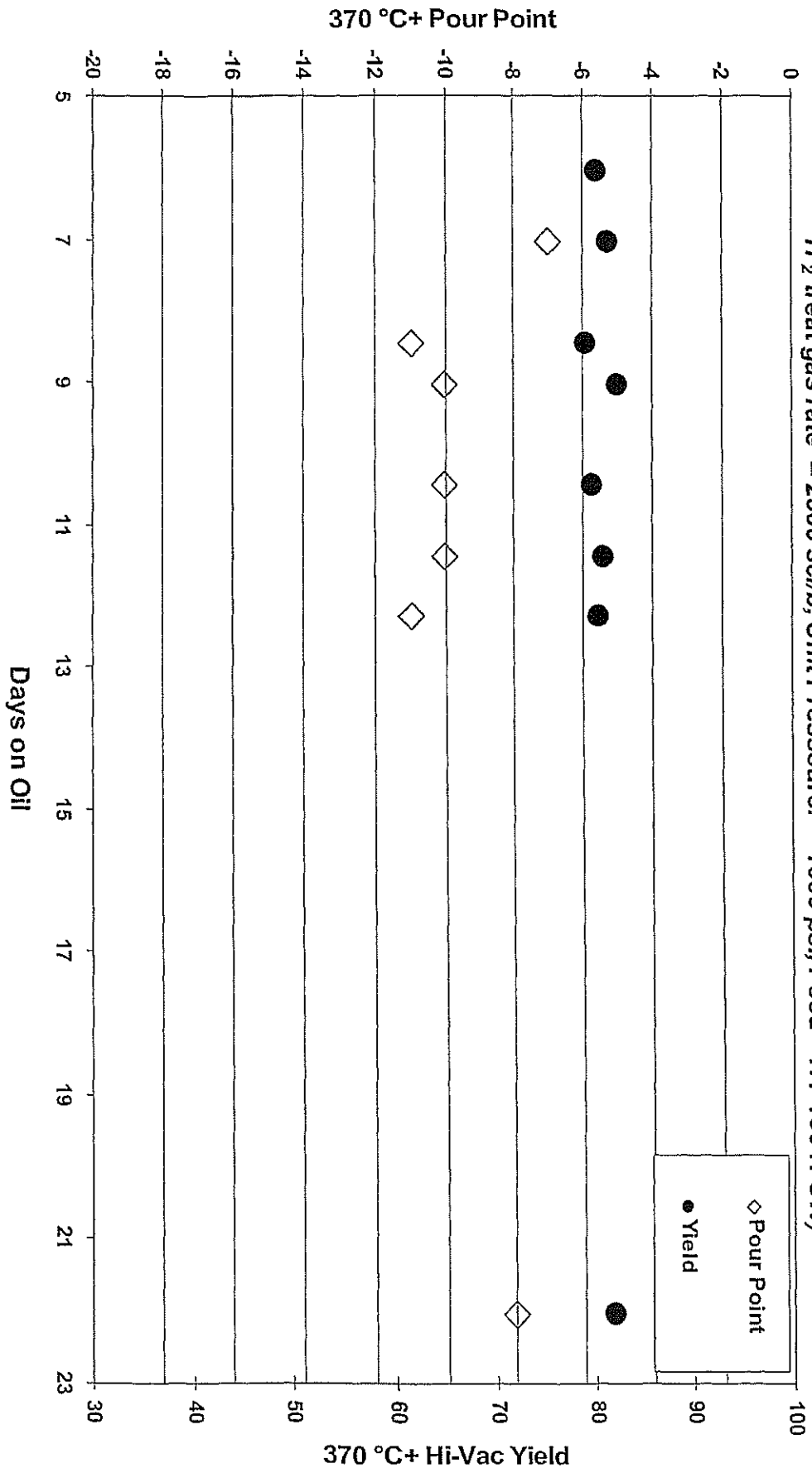


FIGURE 3

Minimal line-out time required for yttria doped catalyst

(Operating conditions: ZSM-48 catalyst temperature = 335 °C, LHSV = 1 hr^{-1}, H_2 treat gas rate = 2500 scf/b, Unit Presssure. = 1000 psi, Feed = HT 150 N SW)

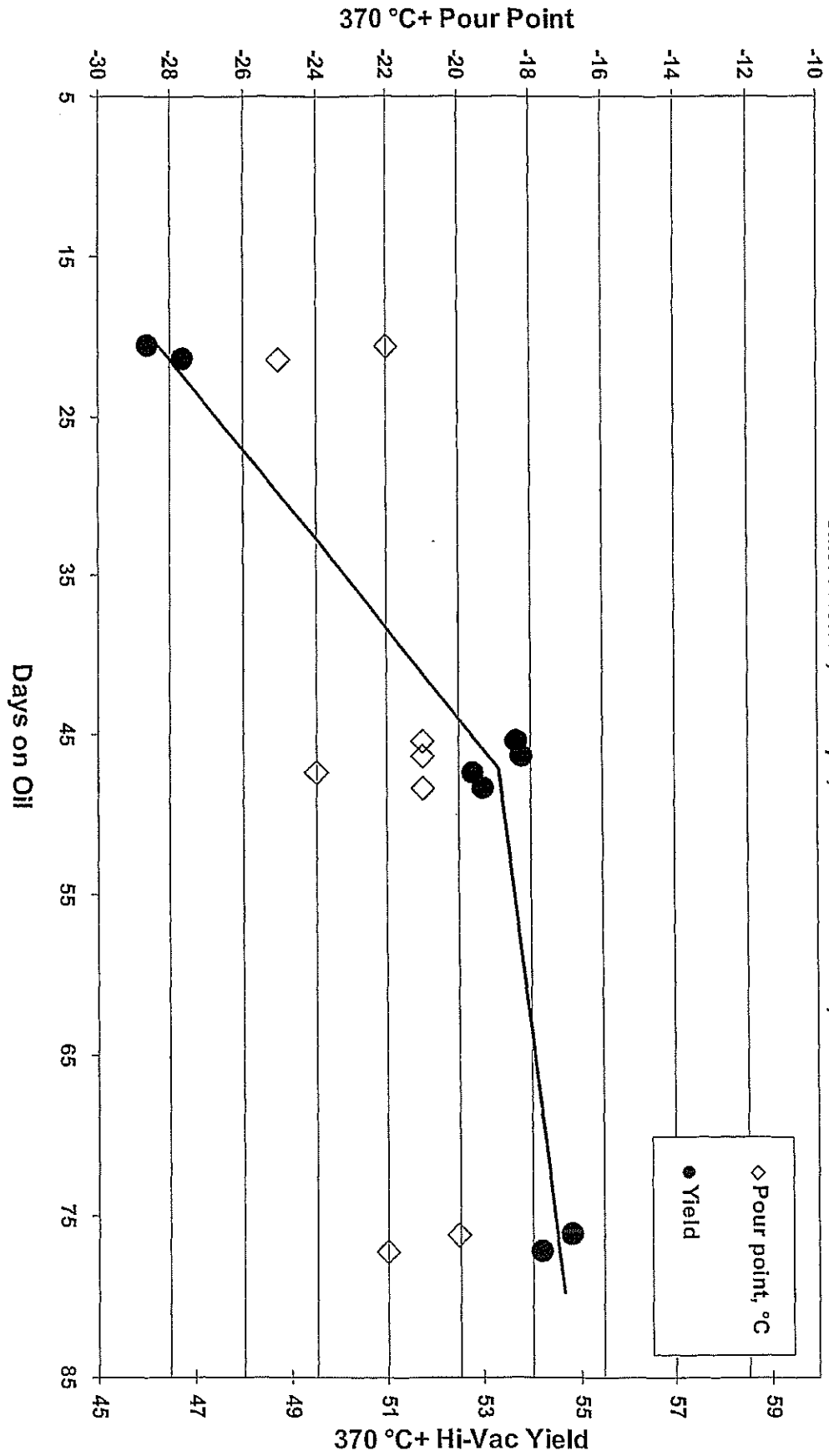


FIGURE 4

Significant line-out time required for ZSM-48 catalyst

(Operating conditions: LHSV = 1 hr^{-1}, H_2 treat gas rate = 2500 scf/b, Unit Pressure, = 1000 psi, Feed = HT 150 N SW)