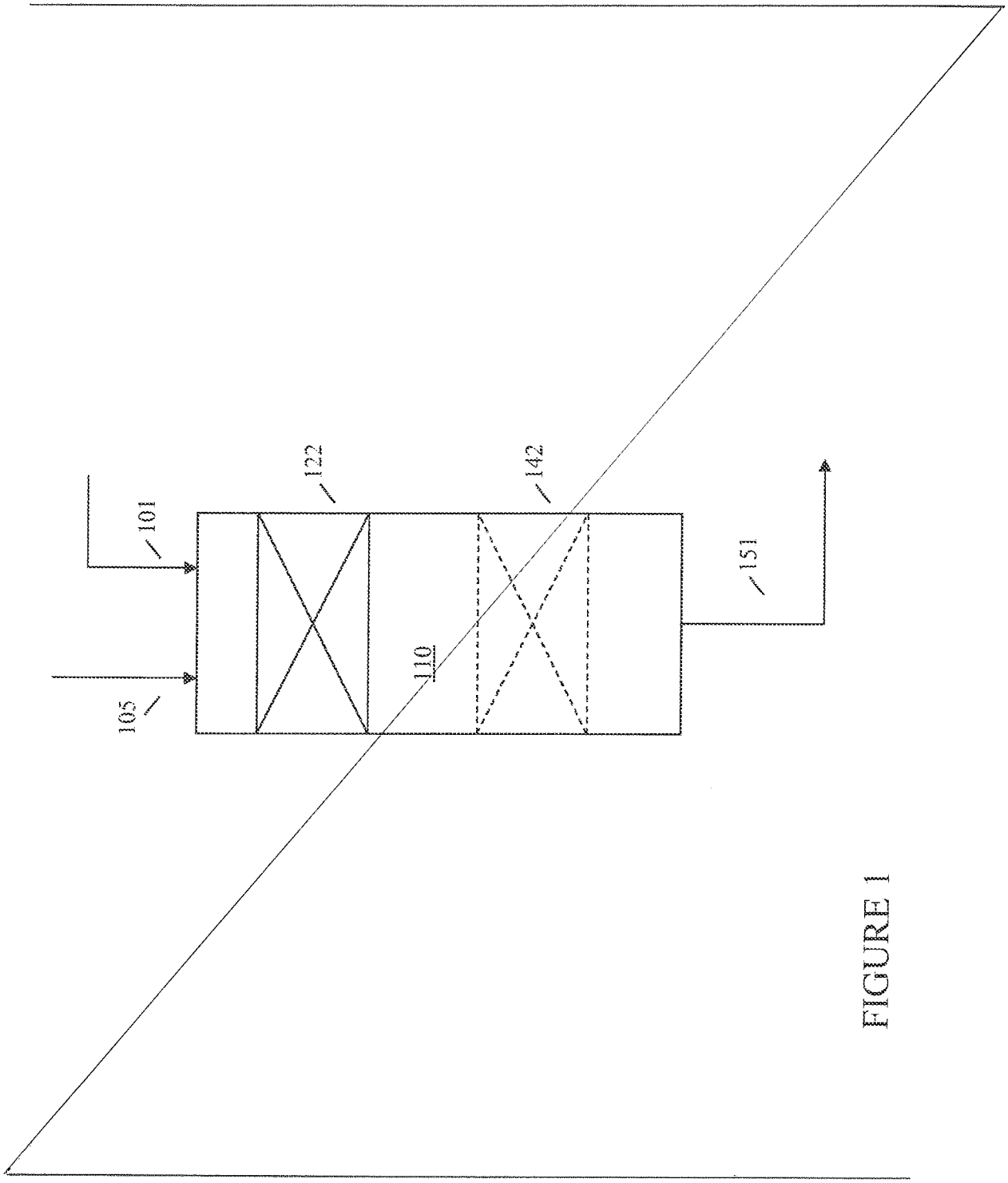


FIGURE 1

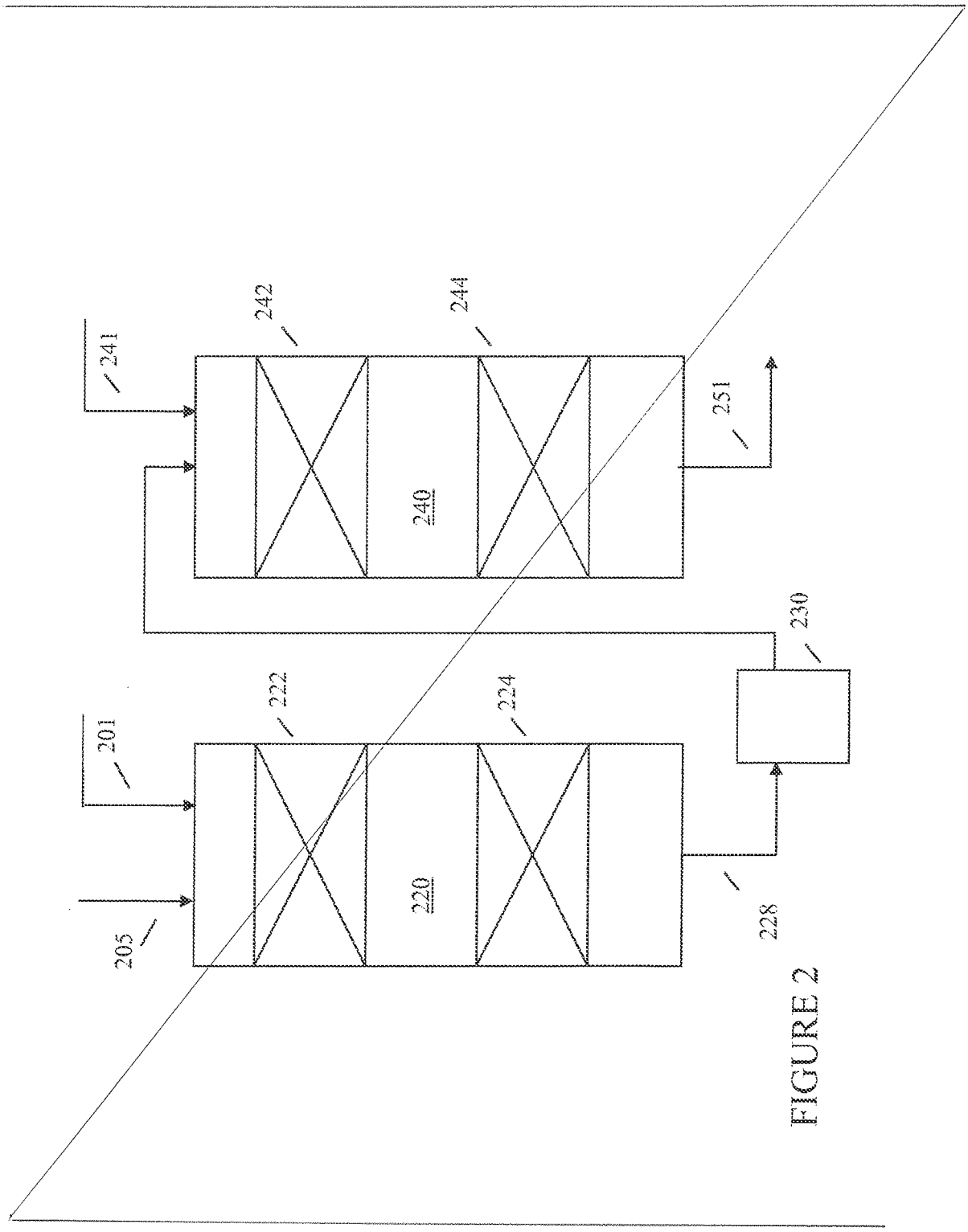


FIGURE 2

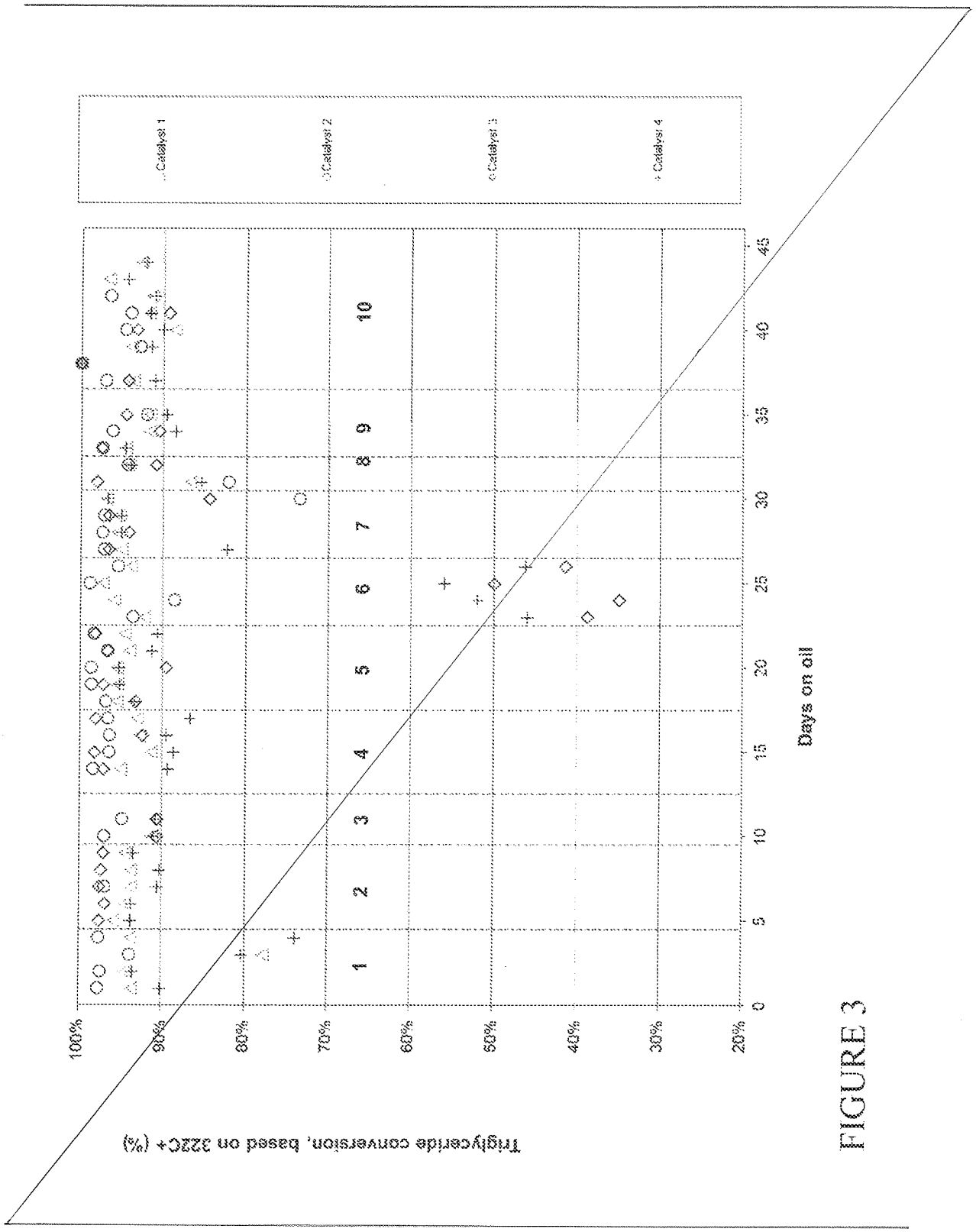

Catalyst 1
Catalyst 2
Catalyst 3
Catalyst 4
Triglyceride conversion, based on 22C+ (%)
100%
90%
80%
70%
60%
50%
40%
30%
20%
0
5
10
15
20
25
30
35
40
45
Days on oil
1
2
3
4
5
6
7
8
9
10

FIGURE 3

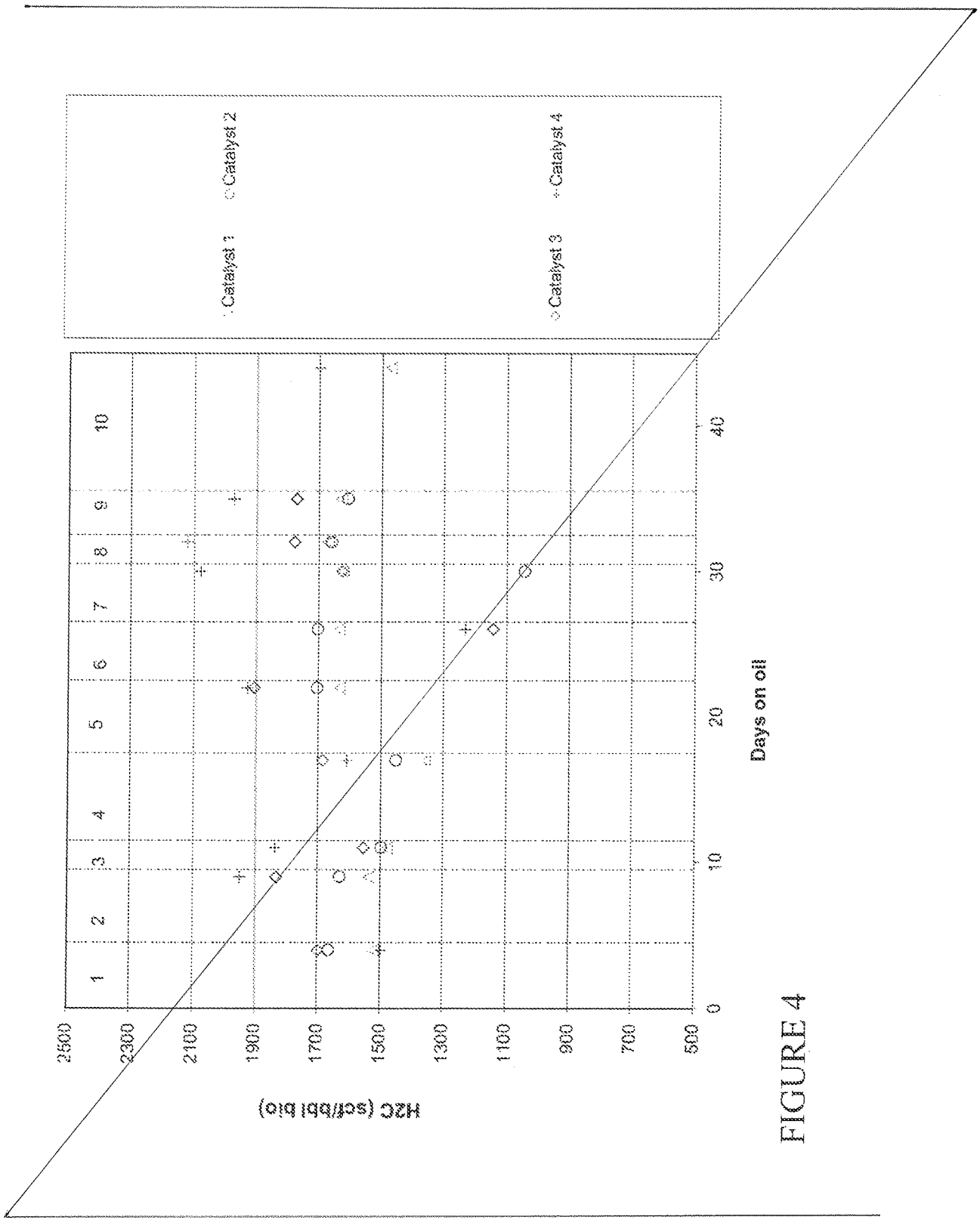

Catalyst 1
Catalyst 2
Catalyst 3
Catalyst 4
H2C (scf/bbl bio)
Days on oil
2500
2300
2100
1900
1700
1500
1300
1100
900
700
500
0
10
20
30
40
1
2
3
4
5
6
7
8
9
10

FIGURE 4

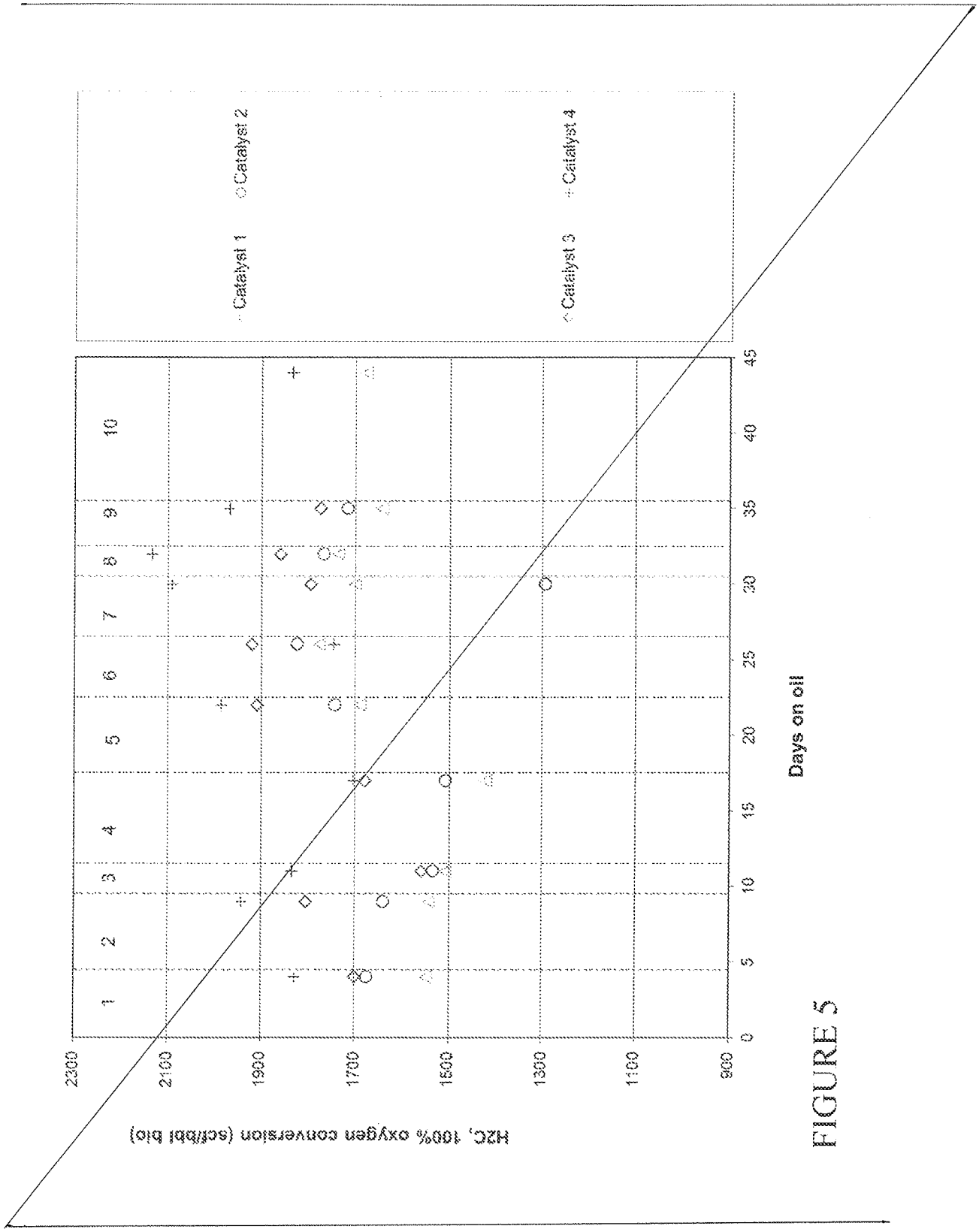

H2C, 100% oxygen conversion (scf/bbl bio)
2300
2100
1900
1700
1500
1300
1100
900
0
5
10
15
20
25
30
35
40
45
Days on oil
Catalyst 1
Catalyst 2
Catalyst 3
Catalyst 4

FIGURE 5

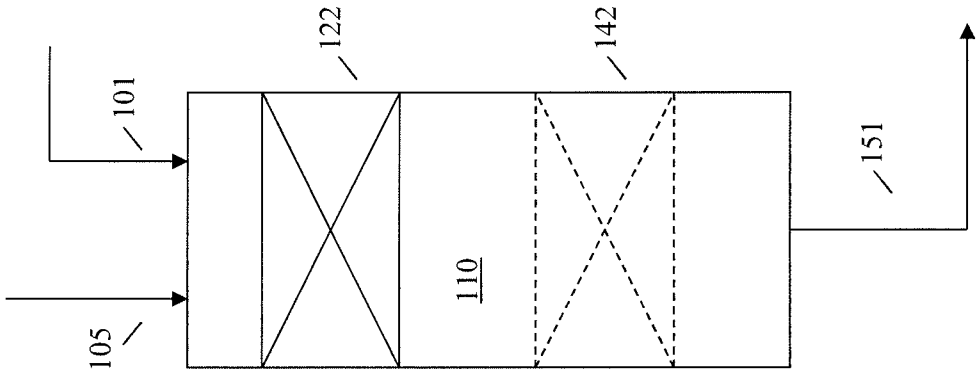


FIGURE 1

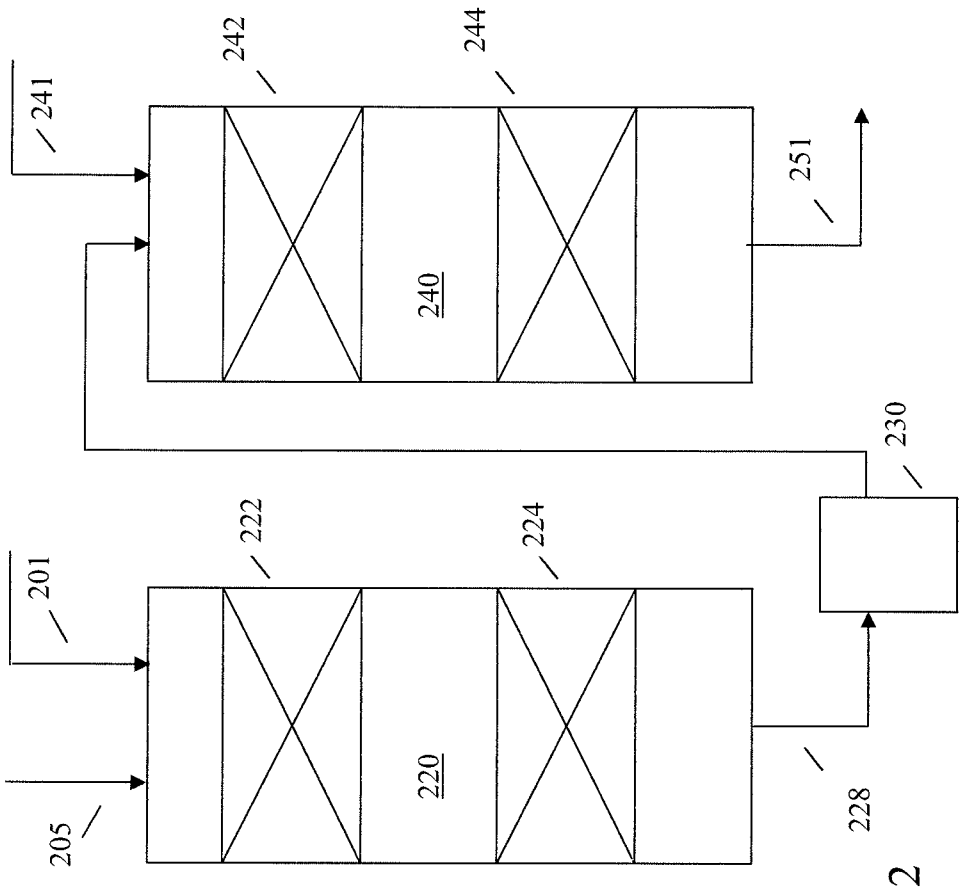


FIGURE 2

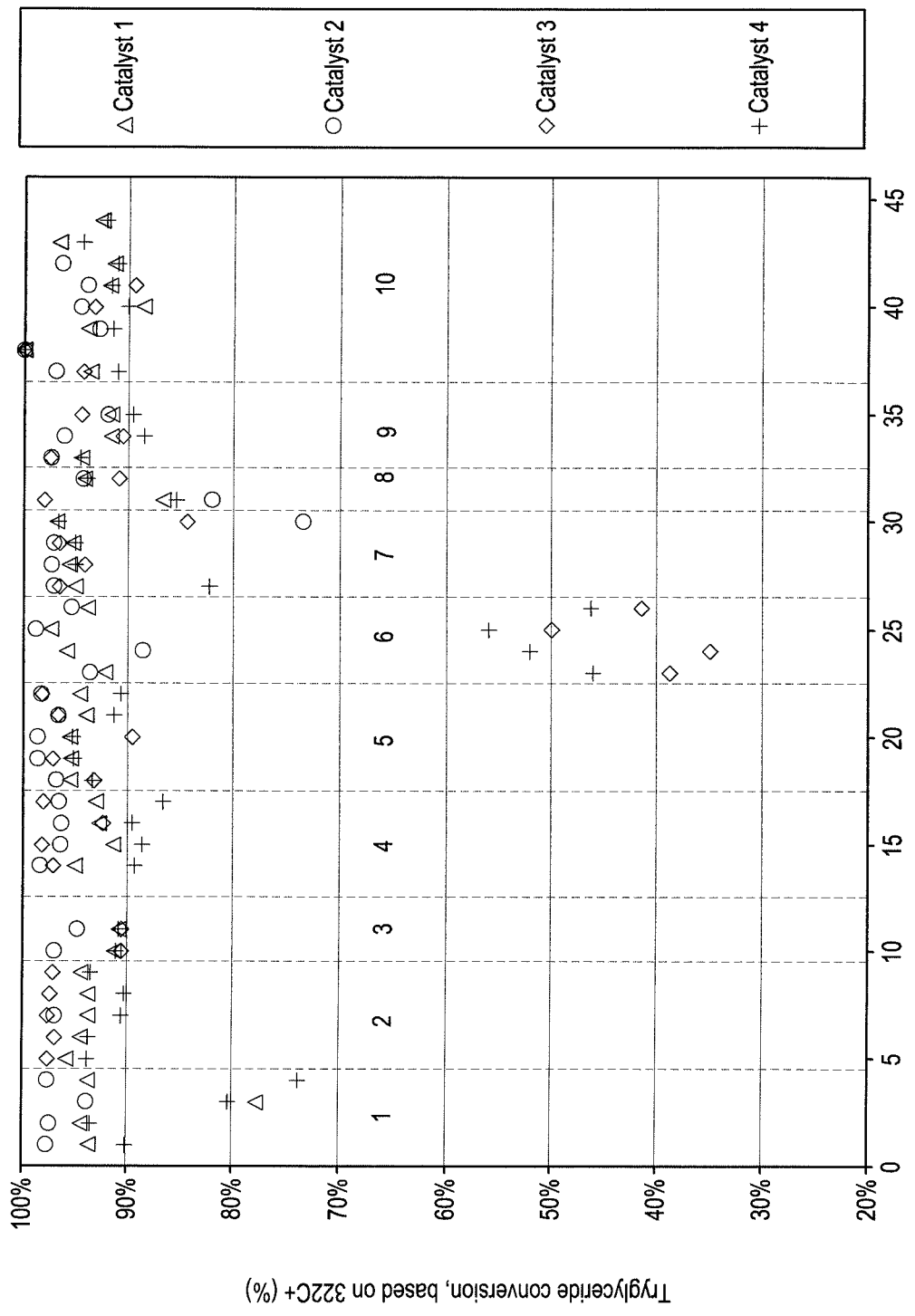

△ Catalyst 1
○ Catalyst 2
◇ Catalyst 3
+ Catalyst 4
Triglyceride conversion, based on 322C+ (%)
100%
90%
80%
70%
60%
50%
40%
30%
20%
0
5
10
15
20
25
30
35
40
45
Days on oil
1
2
3
4
5
6
7
8
9
10

FIGURE 3

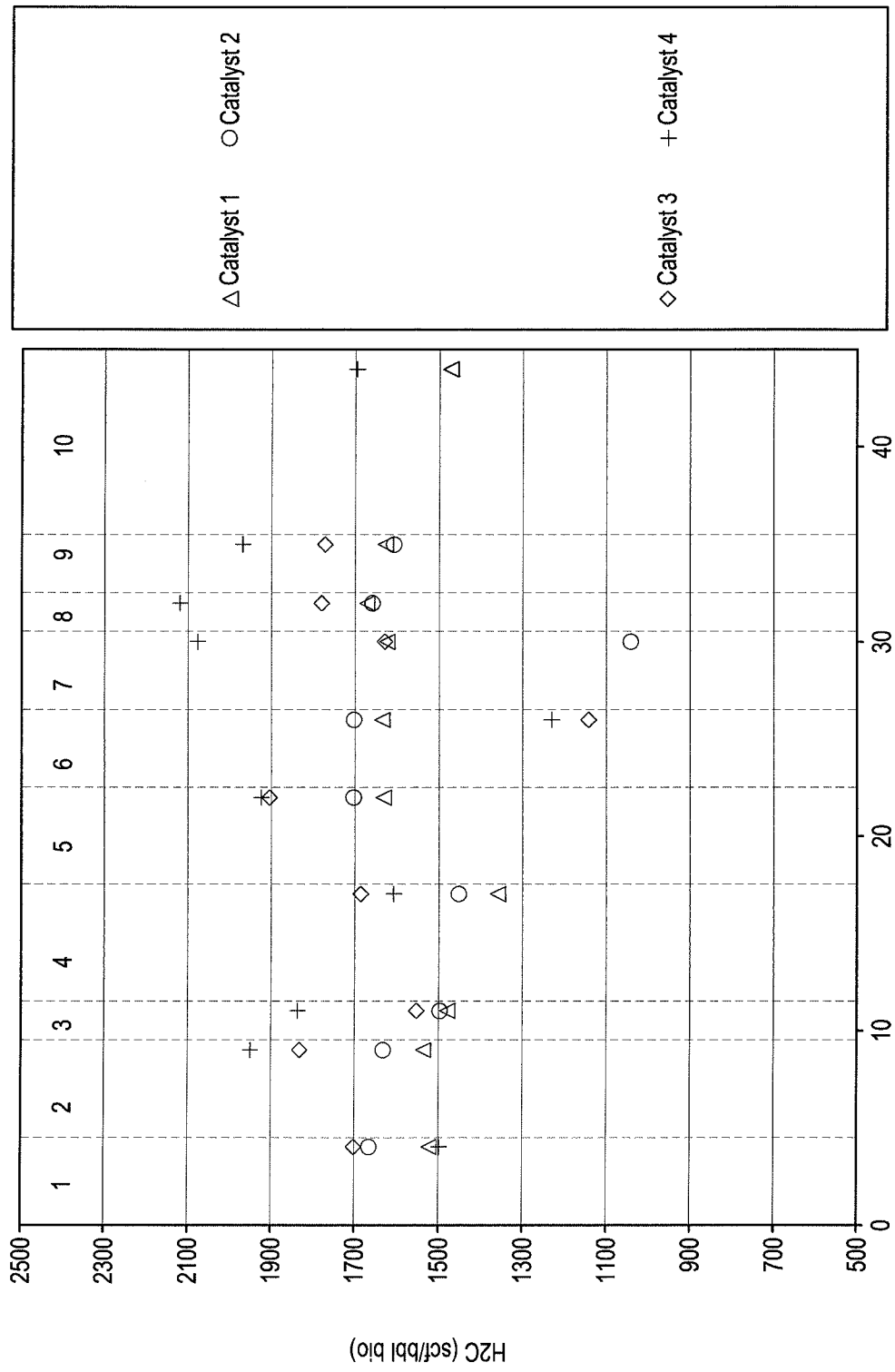

Catalyst 1
Catalyst 2
Catalyst 3
Catalyst 4
H2C (scf/bbl bio)
Days on oil
2500
2300
2100
1900
1700
1500
1300
1100
900
700
500
0
10
20
30
40
1
2
3
4
5
6
7
8
9
10

FIGURE 4

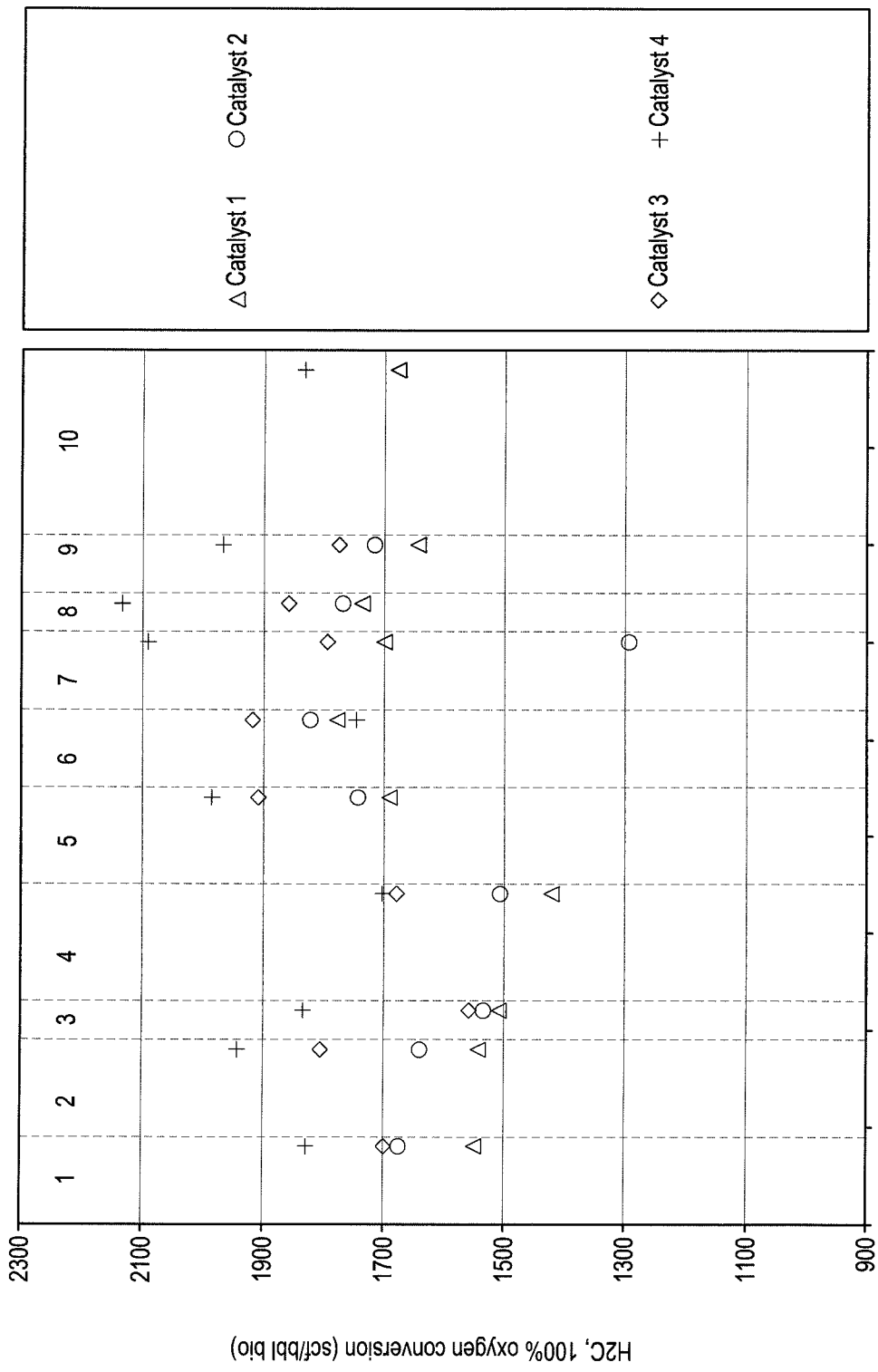

Catalyst 1
Catalyst 2
Catalyst 3
Catalyst 4
H2C, 100% oxygen conversion (scf/bbl bio)
Days on oil
2300
2100
1900
1700
1500
1300
1100
900
0
5
10
15
20
25
30
35
40
45
1
2
3
4
5
6
7
8
9
10

FIGURE 5