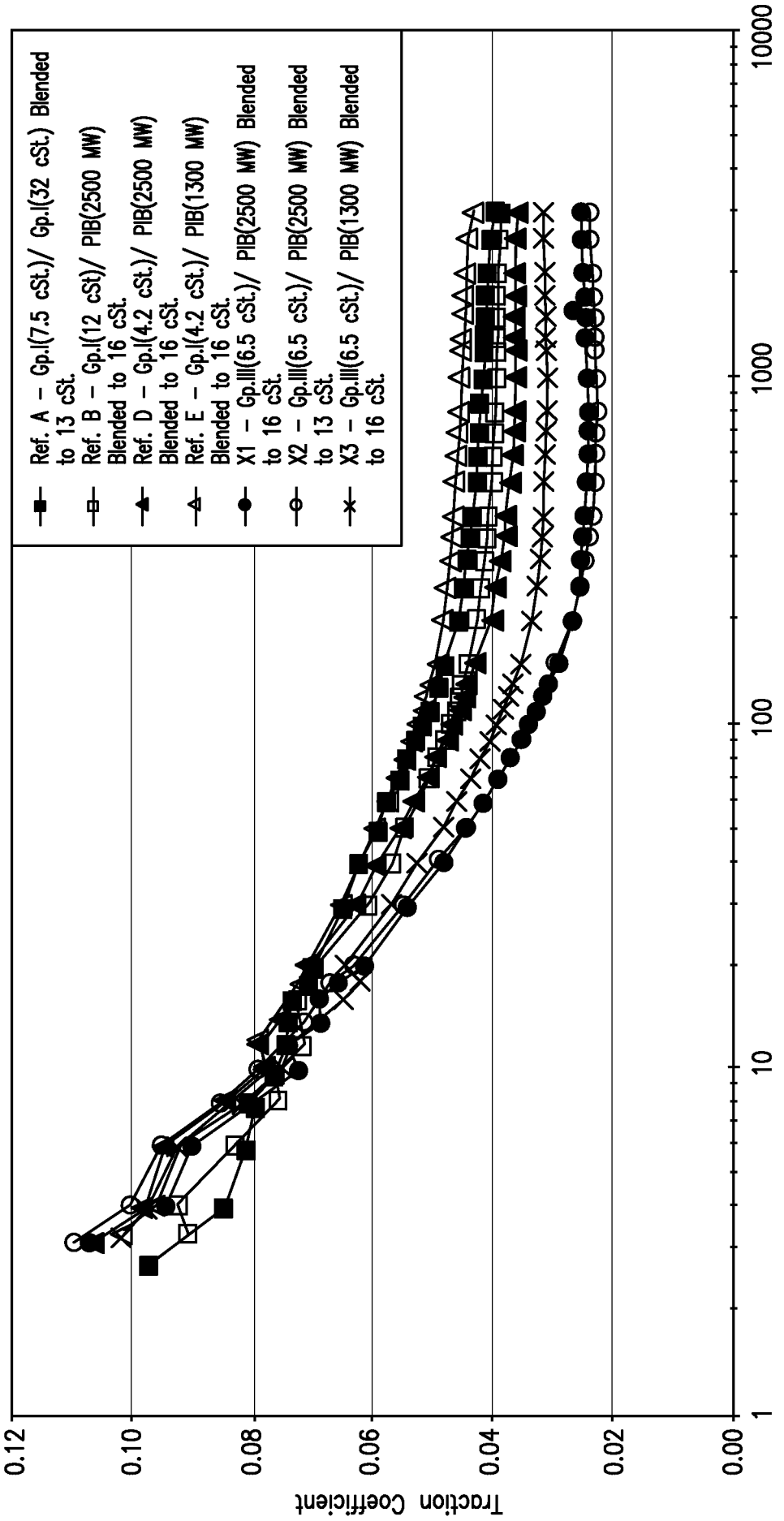

Ref. A – Gp.I(7.5 cSt.)/ Gp.I(32 cSt.) Blended to 13 cSt.
Ref. B – Gp.I(12 cSt)/ PIB(2500 MW) Blended to 16 cSt.
Ref. D – Gp.I(4.2 cSt.)/ PIB(2500 MW) Blended to 16 cSt.
Ref. E – Gp.I(4.2 cSt.)/ PIB(1300 MW) Blended to 16 cSt.
X1 – Gp.III(6.5 cSt.)/ PIB(2500 MW) Blended to 16 cSt.
X2 – Gp.III(6.5 cSt.)/ PIB(2500 MW) Blended to 13 cSt.
X3 – Gp.III(6.5 cSt.)/ PIB(1300 MW) Blended to 16 cSt.
Traction Coefficient
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1
10
100
1000
10000
Speed (mm/s)

FIG. 1

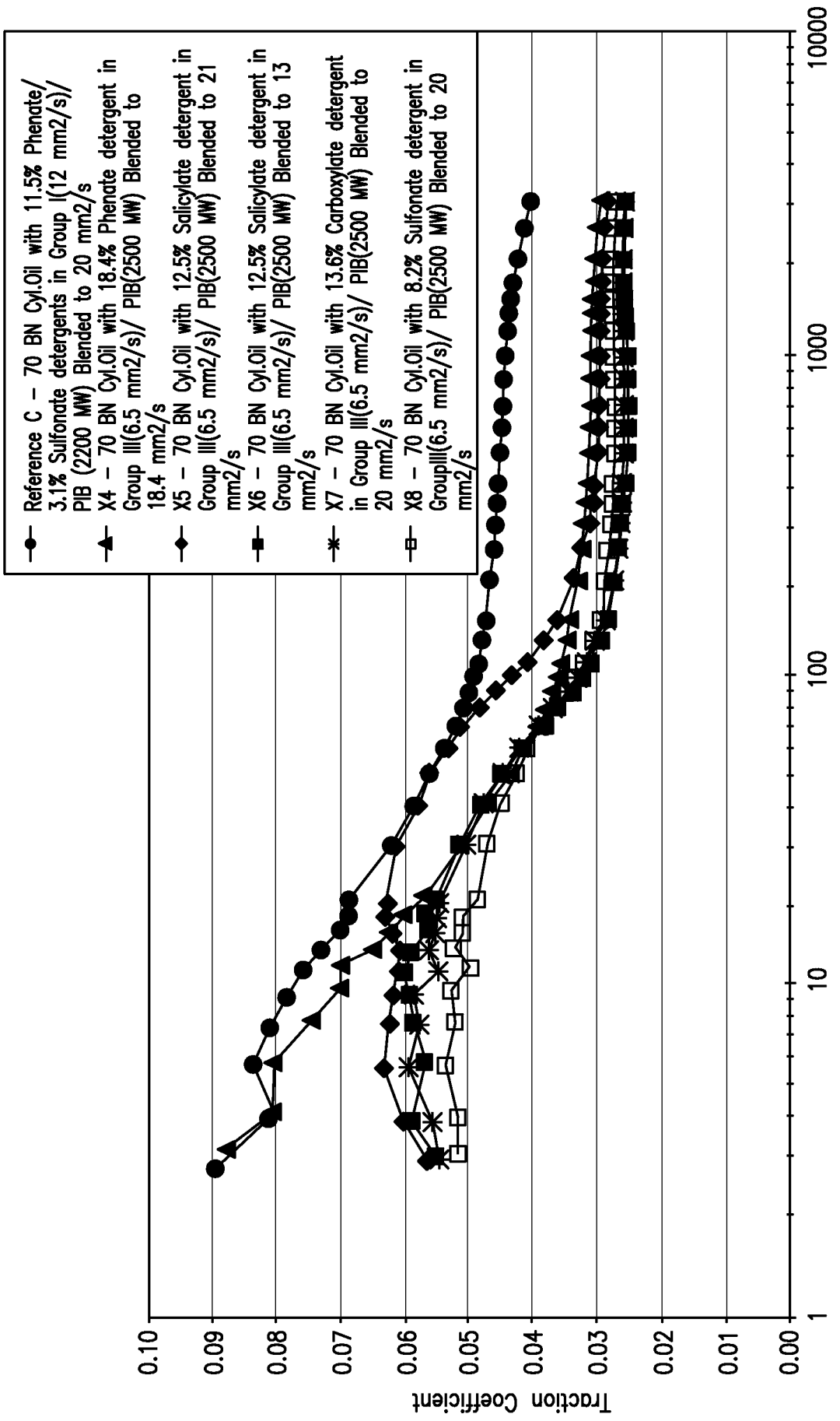

Reference C – 70 BN Cyl.Oil with 11.5% Phenate/ 3.1% Sulfonate detergents in Group I(12 mm2/s)/ PIB (2200 MW) Blended to 20 mm2/s
X4 – 70 BN Cyl.Oil with 18.4% Phenate detergent in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 18.4 mm2/s
X5 – 70 BN Cyl.Oil with 12.5% Salicylate detergent in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 21 mm2/s
X6 – 70 BN Cyl.Oil with 12.5% Salicylate detergent in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 13 mm2/s
X7 – 70 BN Cyl.Oil with 13.6% Carboxylate detergent in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 20 mm2/s
X8 – 70 BN Cyl.Oil with 8.2% Sulfonate detergent in GroupIII(6.5 mm2/s)/ PIB(2500 MW) Blended to 20 mm2/s
Traction Coefficient
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1
10
100
1000
10000
Speed (mm/s)

FIG. 2

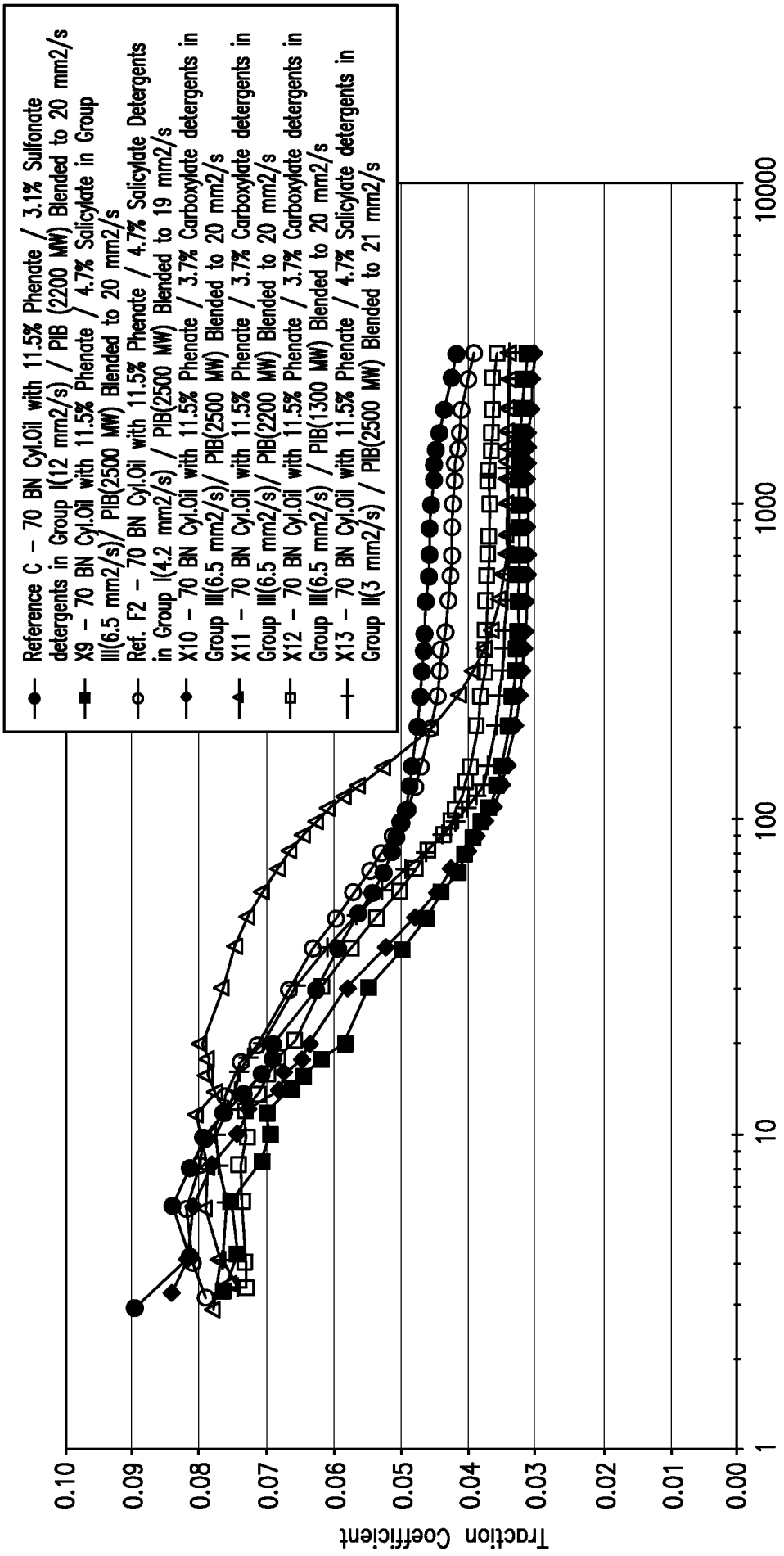

Reference C – 70 BN Cyl.Oil with 11.5% Phenate / 3.1% Sulfonate detergents in Group I(12 mm2/s) / PIB (2200 MW) Blended to 20 mm2/s
X9 – 70 BN Cyl.Oil with 11.5% Phenate / 4.7% Salicylate in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 20 mm2/s
Ref. F2 – 70 BN Cyl.Oil with 11.5% Phenate / 4.7% Salicylate Detergents in Group I(4.2 mm2/s) / PIB(2500 MW) Blended to 19 mm2/s
X10 – 70 BN Cyl.Oil with 11.5% Phenate / 3.7% Carboxylate detergents in Group III(6.5 mm2/s)/ PIB(2500 MW) Blended to 20 mm2/s
X11 – 70 BN Cyl.Oil with 11.5% Phenate / 3.7% Carboxylate detergents in Group III(6.5 mm2/s)/ PIB(2200 MW) Blended to 20 mm2/s
X12 – 70 BN Cyl.Oil with 11.5% Phenate / 3.7% Carboxylate detergents in Group III(6.5 mm2/s) / PIB(1300 MW) Blended to 20 mm2/s
X13 – 70 BN Cyl.Oil with 11.5% Phenate / 4.7% Salicylate detergents in Group II(3 mm2/s) / PIB(2500 MW) Blended to 21 mm2/s
Traction Coefficient
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1
10
100
1000
10000
Speed (mm/s)

FIG. 3