



Ariel Performance



Company: ConocoPhillips Canada
 Quote: Attila
 Case 3: 2000-4600 kPag

Customer: Gillian
 Inquiry: Brassey Check
 Project: D-013-F/093-P10

Compressor Data:

Elevation,ft:	3250.00	Barmtr,kPaa:	89.841	Ambient,F:	95.00
Frame:	JGK/4	Stroke, in:	5.50	Rod Dia, in:	2.000
Max RL Tot, lbf:	74000	Max RL Tens, lbf:	37000	Max RL Comp, lbf:	40000
Rated RPM:	1200	Rated BHP:	2540.0	Rated PS FPM:	1100.0
Calc RPM:	1100.0	BHP:	1161	Calc PS FPM:	1008.3

Driver Data:

Type:	Nat. Gas
Mfg:	Waukesha
Model:	L7042GL
BHP:	1316 (3.00%)
Avail:	1240 (76)

Disch Temp

Services

Gas Model

Service 1

VMG-APRNGL2

Stage Data:

Target Flow, E3m3/D	350.000	---	---	---
Flow Calc, E3m3/D	391.311	---	---	---
BHP per Stage	1138.9	---	---	---
Specific Gravity	0.6499	---	---	---
Ratio of Sp Ht (N)	1.2540	---	---	---
Comp Suct (Zs)	0.9733	---	---	---
Comp Disch (Zd)	0.9673	---	---	---
Pres Suct Line, kPag	1000.00	---	---	---
Pres Suct Flg, kPag	989.10	---	---	---
Pres Disch Flg, kPag	4068.95	---	---	---
Pres Disch Line, kPag	4000.00	---	---	---
Pres Ratio F/F	3.855	---	---	---
Temp Suct, F	100.00	---	---	---
Temp Clr Disch, F	120.00	---	---	---

Cylinder Data:

	Throw 1	Throw 2	Throw 3	Throw 4
Cyl Model	9-5/8K	9-5/8K	9-5/8K	9-5/8K
Cyl Bore, in	9.125	9.125	9.125	9.125
Cyl RDP (API), kPag	7960.3	7960.3	7960.3	7960.3
Cyl MAWP, kPag	8756.3	8756.3	8756.3	8756.3
Cyl Action	DBL	DBL	DBL	DBL
Cyl Disp, CFM	446.9	446.9	446.9	446.9
Pres Suct Intl, kPag	934.82	934.82	934.82	934.82
Temp Suct Intl, F	108	108	108	108
Pres Disch Intl, kPag	4253.96	4253.96	4253.96	4253.96
Temp Disch Intl, F	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
HE Suct Gas Vel, FPM	7516	7516	7516	7516
HE Disch Gas Vel, FPM	6797	6797	6797	6797
HE Spcrs Used/Max	0/4	0/4	0/4	0/4
HE Vol Pkt Avail	0.86+49.13	0.86+49.13	0.86+49.13	0.86+49.13
Vol Pkt Used	0.00 (V) %	0.00 (V) %	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.57	18.57	18.57	18.57
HE Total Clr, %	19.43	19.43	19.43	19.43
CE Suct Gas Vel, FPM	7155	7155	7155	7155
CE Disch Gas Vel, FPM	6471	6471	6471	6471
CE Spcrs Used/Max	0/4	0/4	0/4	0/4
CE Min Clr, %	20.13	20.13	20.13	20.13
CE Total Clr, %	20.13	20.13	20.13	20.13
Suct Vol Eff HE/CE, %	53.7/52.2	53.7/52.2	53.7/52.2	53.7/52.2
Disch Event HE/CE, ms	7.1/8.3	7.1/8.3	7.1/8.3	7.1/8.3
Suct Pseudo-Q HE/CE	5.4/4.9	5.4/4.9	5.4/4.9	5.4/4.9
Gas Rod Ld Comp, %	79.9 C	79.9 C	79.9 C	79.9 C
Gas Rod Ld Tens, %	79.7 T	79.7 T	79.7 T	79.7 T
Gas Rod Ld Total, %	83.0	83.0	83.0	83.0
Xhd Pin Deg/%Rvrsl lbf	162/91.6	162/91.6	162/91.6	162/91.6
Flow Calc, E3m3/D	97.828	97.828	97.828	97.828
Cyl BHP	284.7	284.7	284.7	284.7