



Company: Bidell Equipment Inc.
 Quote: Q-05-026
 Remarks:

Ariel Performance

Customer:
 Inquiry: E-4080-001
 Project:



7.4.

Compressor Data:

Elevation,ft:	<u>2500.0</u>	Barmtr,psia:	13.400	Ambient,°F:	95.00
Frame:	JGJ/4	Stroke, in:	3.50	Rod Dia, in:	1.500
Max RL Tot, lbf:	42000	Max RL Tens, lbf:	21000	Max RL Comp, lbf:	23000
Rated RPM:	1800	Rated BHP:	1240.0	Rated PS FPM:	1050.0
Calc RPM:	1800.0	Calc BHP:	503	Calc PS FPM:	1050.0

Driver Data:

Type:	Nat. Gas
Mfg:	Waukesha
Model:	H24GL/GLD
BHP:	530
Avail:	503 (27)

Services

Stage Data:

	#1	---	#2	---
Flow Req'd, MMSCFD	5.000	---	5.000	---
Flow Calc, MMSCFD	5.092	---	5.092	---
Cyl HP per Stage	260.2	---	230.7	---
Specific Gravity	0.8741	---	0.8741	---
Ratio of Sp Ht (N)	1.2191	---	1.2047	---
Comp Suct (Zs)	0.9733	---	0.9645	---
Comp Disch (Zd)	0.9624	---	0.9522	---
Pres Suct Line, psig	50.00	---	N/A	---
Pres Suct Flg, psig	50.00	---	120.82	---
Pres Disch Flg, psig	124.70	---	255.27	---
Pres Disch Line, psig	N/A	---	250.00	---
Pres Ratio F/F	2.178	---	2.002	---
Temp Suct, °F	40.00	---	120.00	---
Temp Clr Disch, °F	120.00	---	120.00	---

Cylinder Data:

	Throw 1	Throw 3	Throw 2	Throw 4
Cyl Model	11-1/2RJ	11-1/2RJ	7-3/8RJ	7-3/8RJ
Cyl Bore, in	11.500	11.500	7.000	7.000
Int RDP (API), psig	454.5	454.5	1031.8	1031.8
Int MAWP, psig	500.0	500.0	1135.0	1135.0
Cyl Action	DBL	DBL	DBL	DBL
Cyl Disp, CFM	750.9	750.9	274.2	274.2
Pres Suct Intl, psig	41.34	41.34	111.88	111.88
Temp Suct Intl, °F	45	45	123	123
Suct Zsph	0.9741	0.9741	0.9651	0.9651
Pres Disch Intl, psig	143.89	143.89	275.77	275.77
Temp Disch Intl, °F	150	150	212	212
HE Suct Gas Vel, FPM	9917	9917	7518	7518
HE Disch Gas Vel, FPM	9111	9111	7152	7152
HE Spcra Used/Max	0/2	0/2	0/2	0/2
HE Vol Pkt Avail, %	1.21+57.27	1.21+57.27	0.52+57.33	0.52+57.33
Vol Pkt Used, %	85.00 (V)	85.00 (V)	0.00 (V)	0.00 (V)
HE Min Clr, %	21.64	21.64	21.60	21.60
HE Total Clr, %	71.54	71.54	22.12	22.12
CE Suct Gas Vel, FPM	9748	9748	7172	7172
CE Disch Gas Vel, FPM	8956	8956	6823	6823
CE Spcra Used/Max	0/2	0/2	0/2	0/2
CE Min Clr, %	22.40	22.40	22.79	22.79
CE Total Clr, %	22.40	22.40	22.79	22.79
Suct Vol Eff HE/CE, %	29.8/73.8	29.8/73.8	76.7/76.2	76.7/76.2
Disch Event HE/CE, ms	4.0/7.6	4.0/7.6	7.1/8.1	7.1/8.1
Suct Pseudo-Q HE/CE	7.9/8.8	7.9/8.8	6.6/6.0	6.6/6.0
Gas Rod Ld Comp, lbf	10742 C	10742 C	6525 C	6525 C
Gas Rod Ld Tens, lbf	10381 T	10381 T	5801 T	5801 T
Gas Rod Ld Total, lbf	21123	21123	12326	12326
Yhd Pin Deg/%RvrsI lbf	180/83.9	180/83.9	164/77.2	164/77.2
Flow Calc, MMSCFD	2.546	2.546	2.546	2.546
Int HP	130.1	130.1	115.3	115.3