



210504 Unit Specs:

-Packager: Exterran

-Year Built: 1996 Originally; 2015 repackage.

-Engine: Caterpillar G3406NA (1800 RPM, 215 HP; Removed in pics but on site.)

-Frame: Gemini H302

-Stages: 3

-Cylinder Configuration:

9" (300 psi), 6.5" (500 psi), 3.5" (1,250 psi)

-Cooler: Chart 72VI

- MAWP- IC1: 655 psi
- MAWP- IC 2: 1,315 psi
- MAWP- AC: 1,315 psi

-Condition:

- Frame: Preserved and in clean, field-run condition.
- Engine: Needs OH due to lack of use/improper preservation.
- Unit: Inspected & painted Mesa Tan 5/12/21. Engine removed in preparation for engine OH.

-As-Is Price: \$60,000

-Included below:

- Performance runs based on design conditions.
- Current photos

Customer/ End-user:
 Site Location:
 Engineer:

BHGE ID#: 23086-26223-73520-43732-47653
 Case #: N/A
 Date: 5/7/2021, 9:46 PM

Application Data		High Speed H302		Driver Data		Site Data	
Unit Flow	0.85 MMscfd	Rated Power	200.0 HP	Manufacturer		Elevation	0.3 ft
Load per Flow	203.91 HP/MMscfd	Stroke	3.000 in	Model		Atm. Pressure	14.70 psiA
Lubrication	Lubed	Rated Speed	1800 FPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
Unit Load	173.4 HP	Rod Diameter	1.125 in	Rated Speed	1800 FPM	Gas Method	AGA8
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Type	Gathering	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
		Max Rod Load Gas	10000.0 lbf	Run Speed	1800 FPM	Auxiliary Load	0.0 HP
CONCERNS							
Project Notes							
Case Notes N/A							
Order Status							

Stage/ Service Data		Stage 1	Stage 2	Stage 3
Flow Rate	MMscfd	0.850	0.850	0.850
Load	HP	73.90	53.30	40.20
Specific Gravity	-	0.648	0.648	0.648
K Value (Qp/ Qv)	-	1.2432	1.2394	1.2444
Zs	-	0.9939	0.9819	0.9505
Zd	-	0.9933	0.9815	0.9532
Suction Press.	psiG	30.00	151.74	444.89
Ps@Flange	psiG	28.66	151.74	444.89
Pd@Flange	psiG	156.73	454.08	1010.15
Discharge Press.	psiG	151.74	444.89	1000.00
Compress. Ratio	-	3.9540	2.8166	2.2299
Suction Temp.	° F	80.0	120.0	120.0
Cooler Temp.	° F	120.0	120.0	120.0

Cylinder Data		Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model	-	H-Series (2001)	H-Series (1990)				
Operating Mode	-	Tandem	D/A Cyl	BLANK	BLANK	BLANK	BLANK
Head End	Serv#/ Stg#	1/2	1/1				
Bore	in	6.500	9.000				
MAWP	psiG	500.00	300.00				
RDP	psiG	455.00	273.00				
Tail Rod Dia	in	0.000	0.000				
Tsi / Est. Td	° F	125.8/264.5	87.4/273.2				
VVCP Open	%/ Turns	0.00 : 0	12.10 : 3				
Base Cr	%	31.86	16.64				
Added Cr	%	0.00	10.33				
Total Cr	%	31.86	26.97				
Vol. Eff. Ps/ Pd	%/ %	56.42/24.46	43.04/14.24				
Q-Value Ps/ Pd		1.86/1.45	7.21/1.20				
Flow	MMscfd	0.85	0.34				
Crank End	Serv#/ Stg#	1/3	1/1				
Bore	in	3.500	9.000				
MAWP	psiG	1250.00	300.00				
RDP	psiG	1136.00	273.00				
Tsi / Est. Td	° F	123.5/228.1	87.4/273.2				
Base Cr	%	25.42	15.54				
Added Cr	%	0.00	0.00				
Total Cr	%	25.42	15.54				
Vol. Eff. Ps/ Pd	%/ %	75.36/39.67	64.96/21.48				
Q-Value Ps/ Pd		2.19/2.32	6.99/1.16				
Flow	MMscfd	0.85	0.51				
Valve Spacers	HE#/ CE#	0 / 0	0 / 0				
Rod Loads							
Gas-Compress.	%	80.7	88.3				
Gas-Tension	%	77.6	87.0				
Combined-Comp.	%	49.6	41.4				
Combined-Tens.	%	58.9	51.2				
Pin Reversal	Deg/ Mag%	n/a	n/a				
Throw Loading	HP	93.5	73.9				

BOLD = Out of Limit

Customer/ End-user:
 Site Location:
 Engineer:

BHGE ID#: 23086-26223-73520-43732-47653
 Case #: N/A
 Date: 5/7/2021, 9:44 PM

Application Data		High Speed H302		Driver Data		Site Data	
Unit Flow	0.80 MMscfd	Rated Power	200.0 HP	Manufacturer		Elevation	0.3 ft
Load per Flow	209.91 HP/MMscfd	Stroke	3.000 in	Model		Atm. Pressure	14.70 psiA
Lubrication	Lubed	Rated Speed	1800 FPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
Unit Load	169.0 HP	Rod Diameter	1.125 in	Rated Speed	1800 FPM	Gas Method	AGA8
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Type	Gathering	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
		Max Rod Load Gas	10000.0 lbf	Run Speed	1800 FPM	Auxiliary Load	0.0 HP
CONCERNS							
Project Notes							
Case Notes N/A							
Order Status							

Stage/ Service Data		Stage 1	Stage 2	Stage 3
Flow Rate	MMscfd	0.800	0.800	0.800
Load	HP	70.10	50.20	42.60
Specific Gravity	-	0.648	0.648	0.648
K Value (Qp/ Qv)	-	1.2432	1.2395	1.2426
Zs	-	0.9939	0.9819	0.9505
Zd	-	0.9933	0.9815	0.9550
Suction Press.	psiG	30.00	152.22	444.57
Ps@Flange	psiG	28.66	152.22	444.57
Pd@Flange	psiG	157.22	453.75	1111.15
Discharge Press.	psiG	152.22	444.57	1100.00
Compress. Ratio	-	3.9653	2.8064	2.4514
Suction Temp.	° F	80.0	120.0	120.0
Cooler Temp.	° F	120.0	120.0	120.0

Cylinder Data		Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model	-	H-Series (2001)	H-Series (1990)				
Operating Mode	-	Tandem	D/A Cyl	BLANK	BLANK	BLANK	BLANK
Head End	Serv#/ Stg#	1/2	1/1				
Bore	in	6.500	9.000				
MAWP	psiG	500.00	300.00				
RDP	psiG	455.00	273.00				
Tail Rod Dia	in	0.000	0.000				
Tsi / Est. Td	° F	125.8/264.0	87.3/273.6				
VVCP Open	%/ Turns	3.30 : 1	15.40 : 4				
Base Cr	%	31.86	16.64				
Added Cr	%	2.69	13.14				
Total Cr	%	34.54	29.78				
Vol. Eff. Ps/ Pd	%/ %	53.26/23.15	37.44/12.36				
Q-Value Ps/ Pd		1.86/1.45	7.21/1.20				
Flow	MMscfd	0.80	0.30				
Crank End	Serv#/ Stg#	1/3	1/1				
Bore	in	3.500	9.000				
MAWP	psiG	1250.00	300.00				
RDP	psiG	1136.00	273.00				
Tsi / Est. Td	° F	123.5/241.6	87.3/273.6				
Base Cr	%	25.42	15.54				
Added Cr	%	0.00	0.00				
Total Cr	%	25.42	15.54				
Vol. Eff. Ps/ Pd	%/ %	71.39/34.86	64.84/21.40				
Q-Value Ps/ Pd		2.19/2.27	6.99/1.16				
Flow	MMscfd	0.80	0.51				
Valve Spacers	HE#/ CE#	0 / 0	0 / 0				
Rod Loads							
Gas-Compress.	%	80.3	87.6				
Gas-Tension	%	86.3	87.3				
Combined-Comp.	%	47.7	37.9				
Combined-Tens.	%	62.8	51.5				
Pin Reversal	Deg/ Mag%	n/a	n/a				
Throw Loading	HP	92.9	70.1				

BOLD = Out of Limit

Customer/ End-user:
 Site Location:
 Engineer:

BHGE ID#: 60130-37361-52318-26538-71054
 Case #: N/A
 Date: 5/7/2021, 9:26 PM

Application Data		High Speed H302		Driver Data		Site Data	
Unit Flow	0.85 MMscfd	Rated Power	200.0 HP	Manufacturer		Elevation	0.3 ft
Load per Flow	181.58 HP/MMscfd	Stroke	3.000 in	Model		Atm. Pressure	14.70 psiA
Lubrication	Lubed	Rated Speed	1800 FPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
Unit Load	154.8 HP	Rod Diameter	1.125 in	Rated Speed	1800 FPM	Gas Method	AGA8
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Type	Gathering	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
		Max Rod Load Gas	10000.0 lbf	Run Speed	1800 FPM	Auxiliary Load	0.0 HP
CONCERNS							
Project Notes							
Case Notes N/A							
Order Status							

Stage/ Service Data		Stage 1	Stage 2	Stage 3
Flow Rate	MMscfd	0.860	0.860	0.860
Load	HP	56.30	52.20	40.20
Specific Gravity	-	0.648	0.648	0.648
K Value (Qp/ Qv)	-	1.2506	1.2402	1.2444
Zs	-	0.9911	0.9814	0.9504
Zd	-	0.9899	0.9809	0.9530
Suction Press.	psiG	50.00	154.86	445.66
Ps@Flange	psiG	48.06	154.86	445.66
Pd@Flange	psiG	159.86	454.87	1010.15
Discharge Press.	psiG	154.86	445.66	1000.00
Compress. Ratio	-	2.7815	2.7694	2.2262
Suction Temp.	° F	80.0	120.0	120.0
Cooler Temp.	° F	120.0	120.0	120.0

Cylinder Data		Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model	-	H-Series (2001)	H-Series (1990)				
Operating Mode	-	Tandem	SACE	BLANK	BLANK	BLANK	BLANK
Head End	Serv#/ Stg#	1/2	1/1				
Bore	in	6.500	9.000				
MAWP	psiG	500.00	300.00				
RDP	psiG	455.00	273.00				
Tail Rod Dia	in	0.000	0.000				
Tsi / Est. Td	° F	124.2/260.2	101.2/n/a				
VVCP Open	%/ Turns	2.20 : 1	0.01 : 0				
Base Cr	%	31.86	n/a				
Added Cr	%	1.79	n/a				
Total Cr	%	33.65	n/a				
Vol. Eff. Ps/ Pd	%/ %	55.24/24.29	n/a/n/a				
Q-Value Ps/ Pd		1.86/1.46	n/a / n/a				
Flow	MMscfd	0.85	n/a				
Crank End	Serv#/ Stg#	1/3	1/1				
Bore	in	3.500	9.000				
MAWP	psiG	1250.00	300.00				
RDP	psiG	1136.00	273.00				
Tsi / Est. Td	° F	123.5/227.8	100.8/237.2				
Base Cr	%	25.42	15.54				
Added Cr	%	0.00	0.00				
Total Cr	%	25.42	15.54				
Vol. Eff. Ps/ Pd	%/ %	75.43/39.76	77.66/34.25				
Q-Value Ps/ Pd		2.19/2.32	7.02/3.36				
Flow	MMscfd	0.85	0.86				
Valve Spacers	HE#/ CE#	0 / 0	0 / 0				
Rod Loads							
Gas-Compress.	%	80.2	5.8				
Gas-Tension	%	77.3	74.1				
Combined-Comp.	%	48.8	38.4				
Combined-Tens.	%	58.8	68.9				
Pin Reversal	Deg/ Mag%	n/a	n/a				
Throw Loading	HP	92.5	56.3				

BOLD = Out of Limit

Customer/ End-user:
 Site Location:
 Engineer:

BHGE ID#: 60130-37361-52318-26538-71054
 Case #: N/A
 Date: 5/7/2021, 9:30 PM

Application Data		High Speed H302		Driver Data		Site Data	
Unit Flow	0.81 MMscfd	Rated Power	200.0 HP	Manufacturer		Elevation	0.3 ft
Load per Flow	187.56 HP/MMscfd	Stroke	3.000 in	Model		Atm. Pressure	14.70 psiA
Lubrication	Lubed	Rated Speed	1800 FPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
Unit Load	151.4 HP	Rod Diameter	1.125 in	Rated Speed	1800 FPM	Gas Method	AGA8
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Type	Gathering	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
		Max Rod Load Gas	10000.0 lbf	Run Speed	1800 FPM	Auxiliary Load	0.0 HP
CONCERNS							
Project Notes							
Case Notes N/A							
Order Status							

Stage/ Service Data		Stage 1	Stage 2	Stage 3
Flow Rate	MMscfd	0.810	0.810	0.810
Load	HP	59.70	43.10	42.70
Specific Gravity	-	0.648	0.648	0.648
K Value (Qp/ Qv)	-	1.2480	1.2423	1.2428
Zs	-	0.9911	0.9790	0.9503
Zd	-	0.9900	0.9782	0.9548
Suction Press.	psiG	50.00	177.14	445.14
Ps@Flange	psiG	48.06	177.14	445.14
Pd@Flange	psiG	182.14	454.33	1111.15
Discharge Press.	psiG	177.14	445.14	1100.00
Compress. Ratio	-	3.1366	2.4449	2.4484
Suction Temp.	° F	80.0	120.0	120.0
Cooler Temp.	° F	120.0	120.0	120.0

Cylinder Data		Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model	-	H-Series (2001)	H-Series (1990)				
Operating Mode	-	Tandem	SACE	BLANK	BLANK	BLANK	BLANK
Head End	Serv#/ Stg#	1/2	1/1				
Bore	in	6.500	9.000				
MAWP	psiG	500.00	300.00				
RDP	psiG	455.00	273.00				
Tail Rod Dia	in	0.000	0.000				
Tsi / Est. Td	° F	124.8/242.6	101.3/n/a				
VVCP Open	%/ Turns	21.98 : 5	0.01 : 0				
Base Cr	%	31.86	n/a				
Added Cr	%	17.93	n/a				
Total Cr	%	49.78	n/a				
Vol. Eff. Ps/ Pd	%/ %	46.18/22.47	n/a/n/a				
Q-Value Ps/ Pd		1.86/1.50	n/a / n/a				
Flow	MMscfd	0.81	n/a				
Crank End	Serv#/ Stg#	1/3	1/1				
Bore	in	3.500	9.000				
MAWP	psiG	1250.00	300.00				
RDP	psiG	1136.00	273.00				
Tsi / Est. Td	° F	123.0/240.9	100.9/255.3				
Base Cr	%	25.42	15.54				
Added Cr	%	0.00	0.00				
Total Cr	%	25.42	15.54				
Vol. Eff. Ps/ Pd	%/ %	71.45/34.93	73.69/29.47				
Q-Value Ps/ Pd		2.19/2.27	7.01/3.27				
Flow	MMscfd	0.81	0.81				
Valve Spacers	HE#/ CE#	0 / 0	0 / 0				
Rod Loads							
Gas-Compress.	%	74.7	5.8				
Gas-Tension	%	84.1	88.0				
Combined-Comp.	%	40.9	35.1				
Combined-Tens.	%	60.7	68.9				
Pin Reversal	Deg/ Mag%	n/a	n/a				
Throw Loading	HP	85.8	59.7				

BOLD = Out of Limit







