



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: \$45k

-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 RPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
		Rod Diameter	1.125 in	Rated Speed	1800 RPM	Gas Method	AGA8
Unit Load	173.4 HP	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
Type	Gathering	Max Rod Load Gas	10000.0 lbf	Run Speed	1800 RPM	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 Ctr	%	31.86	16.64				
Added Ctr	%	0.00	10.33				
Total Ctr	%	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 Ctr	%	25.42	15.54				
Added Ctr	%	0.00	0.00				
Total Ctr	%	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

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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 RPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
		Rod Diameter	1.125 in	Rated Speed	1800 RPM	Gas Method	AGA8
Unit Load	169.0 HP	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
Type	Gathering	Max Rod Load Gas	10000.0 lbf	Run Speed	1800 RPM	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 Ctr	%	31.86	16.64				
Added Ctr	%	2.69	13.14				
Total Ctr	%	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 Ctr	%	25.42	15.54				
Added Ctr	%	0.00	0.00				
Total Ctr	%	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				

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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 RPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
		Rod Diameter	1.125 in	Rated Speed	1800 RPM	Gas Method	AGA8
Unit Load	154.8 HP	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
Type	Gathering	Max Rod Load Gas	10000.0 lbf	Run Speed	1800 RPM	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				
VVOP Open	%/ Turns	2.20 : 1	0.01 : 0				
Base Ctr	%	31.86	n/a				
Added Ctr	%	1.79	n/a				
Total Ctr	%	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 Ctr	%	25.42	15.54				
Added Ctr	%	0.00	0.00				
Total Ctr	%	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				

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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 RPM	Rated Power	200.0 HP	Ambient Temp	80.0 ° F
		Rod Diameter	1.125 in	Rated Speed	1800 RPM	Gas Method	AGA8
Unit Load	151.4 HP	Max Rod Load Comp	10000.0 lbf	Avail. Power	200.0 HP	Base Pressure	14.696 psiA
Avg. Piston Vel.	900.00 ft/min	Max Rod Load Tens	10000.0 lbf	Derate	0.00 %	Base Temp.	60.0 ° F
Type	Gathering	Max Rod Load Gas	10000.0 lbf	Run Speed	1800 RPM	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				
VVOP Open	%/ Turns	21.98 : 5	0.01 : 0				
Base Ctr	%	31.86	n/a				
Added Ctr	%	17.93	n/a				
Total Ctr	%	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 Ctr	%	25.42	15.54				
Added Ctr	%	0.00	0.00				
Total Ctr	%	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				

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