



GE Oil & Gas - HSR Compressor Performance Report

Project Name:
 Customer/End-user: Shackleton
 Packager:
 Site Location:

GE ID#: 150115-114921-TS5
 Case #: n/a
 Version: 02.02.00
 Date: 15/01/2015, 12:08:28 PM

Application Data:	Compressor Frame: H302	Driver Data:	Site Data:
Est. Flow:: 0.866 MMscfd	Rated Power: 200.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: 97.0 HP/MMscfd	Stroke: 3.000 in	Manufacturer: Caterpillar	Atm. Pressure: 14.6960 psiA
Est. Total Load: 84.0 HP (100%)	Rated Speed: 1800	Model: G3304-NA	Ambient Temp: 80.0 deg F
Run Speed: 1800	Rod Diameter: 1.125 in	Rated Power: 95.0 HP	Gas Method: Generic
Auxiliary Load: 11.0 HP(d)	Max Rod Load Comp: 10000 lbf	Rated Speed: 1800	Base Conditions for Flow Rates:
Lubrication: Lubed	Max Rod Load Tens: 10000 lbf	Avail. Power: 84.0 HP	Pressure: 14.6960 psiA
Type: Miscellaneous	Max Rod Load Gas: 10000 lbf	Amb. Derate: Fixed	Temperature: 60.0 deg F
ISSUES: -			
Project Notes: No Gas Analysis Entered,			
Case Notes:			
Order Status:			

Stage/Service Data:	Stage-1	Stage-2
Flow Rate: MMscfd	0.87	0.87
Load: HP	37.1	40.9
Specific Gravity: -	0.6500	0.6500
K Value (Cp/Cv): -	1.2400	1.2400
Zs: -	0.9693	0.9566
Zd: -	0.9628	0.9561
Suction Press.: psiG	200.00	438.44
Ps@Flange: psiG	195.00	438.44
Pd@Flange: psiG	447.50	1010.15
Discharge Press.: psiG	438.44	1000.00
Compress. Ratio: -	2.2041	2.2617
Suction Temp.: deg F	60.0	120.0
Cooler Temp.: deg F	120.0	n/a

Cylinder Data:	Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model: -	H-Series	H-Series				
Operating Mode: -	D/A Cyl	D/A Cyl				
Head End	Stage	Stg-1	Stg-2	-	-	-
Bore: in		3.5	2.5	-	-	-
MAWP: psiG		1250	1440	-	-	-
RDP: psiG		1136	1309	-	-	-
Tail Rod Dia: in		0	0	-	-	-
Est. Td: deg F		152.9	225.3	-	-	-
VVCP Open: in : Turns		0.50 : 4	No VVCP	-	-	-
Base Clr: %		21.76	21.95	-	-	-
Added Clr: %		12.19	0.00	-	-	-
Total Clr: %		33.95	21.95	-	-	-
Vol. Eff. Suct.: %		67.71	77.66	-	-	-
Vol. Eff. Disch.: %		35.56	40.19	-	-	-
Flow: MMscfd		0.43	0.49	-	-	-
Crank End	Stage	Stg-1	Stg-2	-	-	-
Bore: in		3.5	2.5	-	-	-
MAWP: psiG		1250	1440	-	-	-
RDP: psiG		1136	1309	-	-	-
Est. Td: deg F		152.9	225.3	-	-	-
Base Clr: %		23.14	25.85	-	-	-
Added Clr: %		0.00	0.00	-	-	-
Total Clr: %		23.14	25.85	-	-	-
Vol. Eff. Suct.: %		77.27	74.10	-	-	-
Vol. Eff. Disch.: %		40.58	38.35	-	-	-
Flow: MMscfd		0.44	0.37	-	-	-
Valve Spacers: HE#/CE#		0 / 0	0 / 0	-	-	-
Rod Loads						
Gas-Compress.: %		29.8	34.3	-	-	-
Gas-Tension: %		22.9	19.9	-	-	-
Net-Compress.: %		35.3	37.6	-	-	-
Net-Tension: %		32.3	31.0	-	-	-
Pin Reversal: Deg/Mag%		n/a	n/a	-	-	-
Throw Loading	HP	37.1	40.9	-	-	-

BOLD = Out of Limit

FILE: