



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, 12:04:22 PM

Application Data:	Compressor Frame: H302	Driver Data:	Site Data:
Est. Flow:: 0.470 MMscfd	Rated Power: 200.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: 112.3 HP/MMscfd	Stroke: 3.000 in	Manufacturer: Caterpillar	Atm. Pressure: 14.6960 psiA
Est. Total Load: 52.8 HP (63%)	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	0.47	0.47
Load: HP	22.4	24.4
Specific Gravity: -	0.6500	0.6500
K Value (Cp/Cv): -	1.2400	1.2400
Zs: -	0.9836	0.9745
Zd: -	0.9793	0.9720
Suction Press.: psiG	100.00	245.02
Ps@Flange: psiG	96.56	245.02
Pd@Flange: psiG	250.22	610.00
Discharge Press.: psiG	245.02	600.00
Compress. Ratio: -	2.3811	2.4053
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	162.3	233.8				
VVCP Open: in : Turns	0.00 : 0	No VVCP				
Base Clr: %	21.76	21.95				
Added Clr: %	0.00	0.00				
Total Clr: %	21.76	21.95				
Vol. Eff. Suct.: %	75.75	75.25				
Vol. Eff. Disch.: %	37.46	36.98				
Flow: MMscfd	0.25	0.27				
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	162.3	233.8				
Base Clr: %	23.14	25.85				
Added Clr: %	0.00	0.00				
Total Clr: %	23.14	25.85				
Vol. Eff. Suct.: %	74.37	71.32				
Vol. Eff. Disch.: %	36.78	35.05				
Flow: MMscfd	0.22	0.20				
Valve Spacers: HE#/CE#	0 / 0	0 / 0				
Rod Loads						
Gas-Compress.: %	17.7	21.4				
Gas-Tension: %	13.9	12.8				
Net-Compress.: %	33.0	33.8				
Net-Tension: %	42.4	38.0				
Pin Reversal: Deg/Mag%	n/a	n/a				
Throw Loading	HP	22.4	24.4			

BOLD = Out of Limit

FILE: