

Module Setup 6099 - Liege North 13-09 #1

Detection Number	6099	Compressor Name	Liege North 13-09 #1
Client Compressor #	6099	Compressor Location	13-09-93-18-W4M
Latitude	57.057084	Elevation - fast	1697
Longitude	-112.843357	Time Zone	
Area	St. Albert North	Field	Liege
Foreman	Dwayne Fotty		
Operator		Province/State	Alberta
Packager Name	Energy Industries	Package Serial #	439
EUB License #	17653	Cost Center Code	10104684
Compressor Sound Level (dB)	0	Environmental Registration #	
Gas Working Interest %	75	Gas Pricing - \$/mscf	2
Skid Type	Housed	Electricity Pricing - \$/kWh	0.1
Field Limitation	No	Sour Service	No
Ownership Status	Not Set	Compressor Application	Gathering
		Vibration Planes	1
Setup Date	8/27/2002	Setup Fee	Setup Fee # 2
		Enalysis Fee	Enalysis Fee # 1
Active Status	Surplus	Using Maintenance	No
Surplus Condition	D (Major O/H Req'd)		
Hide From Non-Reported List	No	Using SCADA	No
Remote Compressor ID	6099		
Reason Unit is not Operating			

Gas Analysis 6099 - Liege North 13-09 #1

Stream Name	Inlet Str.	Fuel Gas	
Stream Type	Inlet Stream	Fuel Gas	
Sample Date	11/23/2006	11/23/2006	
Hydrogen	0.0000	0.0000	
Helium	0.0000	0.0000	
Nitrogen	0.0046	0.0046	
Carbon Dioxide	0.0273	0.0273	
Hydrogen Sulfide	0.0000	0.0000	
Methane	0.9672	0.9672	
Ethane	0.0009	0.0009	
Propane	0.0000	0.0000	
ISO Butane	0.0000	0.0000	
Normal Butane	0.0000	0.0000	
ISO Pentane	0.0000	0.0000	
Normal Pentane	0.0000	0.0000	
Hexane	0.0000	0.0000	
Heptane	0.0000	0.0000	
Octane	0.0000	0.0000	
Oxygen	0.0000	0.0000	
Ammonia	0.0000	0.0000	
Water	0.0000	0.0000	
Pseudo Critical Temperature Adjustment	4.32	4.32	
Specific Gravity	0.583	0.583	

Dehydrated Gas	Yes	Yes	
Temperature Base - °F	60	60	
Pressure Base - psia	14.696	14.696	

Driver Setup 6099 - Liege North 13-09 #1

Manufacturer	Waukesha	Model	L7042GSI
Serial Number	C11014-2	Asset Tracking Number	
Driver Type	Turbo		
Engine Configuration	V	Number of Cylinders	12
Compression Ratio	8	Catalytic Converter Installed	N/A
Rated rpm	1200	Min rpm	700
Max Horsepower @Sea Level	1478	Max Derated Horsepower	1478
Min Horsepower @Sea Level	862	Min Derated Horsepower	862
Fuel Requirements - Btu/HPhr	7821	Fuel Gas LHV - Btu/cft	881.03
Engine Timing - BTDC °	24	Air / Fuel Ratio	10.2
Max Boost - psig	4.87	Max Engine Exhaust Temp - °F	1125
Exhaust Flow - cfm	6967	Exhaust O2 %	1.35
Max Engine NOx - g/bhp-hr	18	Max Engine CO - g/bhp-hr	1
Max Engine CO2 - g/bhp-hr	456.36	Overall Exhaust dB @ 1.5m	105
Water Pump - HP	29.56	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	16000	Max BTTM End Overhaul Hours	32000
Max Oil Change Hours	3000	Ambient Operating Temp - °F	60
Gear Ratio	1	Compressor rpm @ Rated Driver rpm	1200
Intake Valve Recession Limit	0	Exhaust Valve Recession Limit	0

Engine Flags Setup 6099 - Liege North 13-09 #1

Pressure - psig	High	High	Low	Low	Temperature - °F	High	High	Low	Low
Oil Header	75	63	35	30	Oil Header	205	195	170	140
Jacket	21.7	18	7	2.5	Jacket	200	190	170	150
Fuel Gas	65	60	40	30	Fuel Gas	140	130	-10	-20
Intercooler	21.7	18	7	2.5	Intercooler	150	137	124	110
Intake Manifold	5.9	5	4	3	Intake Manifold	160	155	130	110
					Exhaust Manifold	1235	1175	1075	970
					Aux. Water	140	130	120	100
					Cylinder Deviation	75			

Frame Setup 6099 - Liege North 13-09 #1

Manufacturer	Energy Industries	Model	FE650C-4
Serial Number	50F565	Asset Tracking Number	
		Stroke - inches	6
Number of Throws	4	Number of Stages	3
Unloader Type	None		
Rod Load Type	External		
Max Compression - lbs	30000	Max Tension - lbs	30000
Total Max Rod Load - lbs	0		
Dynamic Max Compression - lbs	30000	Dynamic Max Tension - lbs	30000

Max Overhaul Hours	32000	Max Horsepower	2400
Rated rpm	1200	Min rpm	600

Cylinder Setup 6099 - Liege North 13-09 #1				
Stage	1	1	2	3
Throw	2	4	3	1
Cylinder Model	89R	89R	89R	89R
Dummy Cylinder	No	No	No	No
Cylinder Serial #				
Cylinder MAWP - psig	635	635	1250	2200
Lube Status	Lube	Lube	Lube	Lube
Cylinder Action	DA	DA	DA	DA
Cylinder Diameter - inches	14.25	14.25	9.5	6
Rod Diameter - inches	2	2	2	2
Tail Rod Diameter - inches	0	0	0	0
Associated Gas Stream	Inlet Str.	Inlet Str.	Inlet Str.	Inlet Str.
Orifice Data				
Suct. Internal Pipe Diam. - inches	0	0	0	0
Suct. Orifice Diam. - inches	0	0	0	0
Disc. Internal Pipe Diam. - inches	0	0	0	0
Disc. Orifice Diam. - inches	0	0	0	0

Valve Setup 6099 - Liege North 13-09 #1				
Stage	1	1	2	3
Throw	2	4	3	1
HE Suction Valve Resist VHDS	6.66	6.66	6.66	6.66
HE Suction Valve Quantity	2	2	1	2
HE Suction Valve Lift - inches	0.08	0.08	0.08	0.08
HE Suction Valve Area - sq. in .	10.77	10.77	10.77	2.28
HE Discharge Valve Resist VHDS	6.66	6.66	6.66	6.66
HE Discharge Valve Quantity	2	2	1	2
HE Discharge Valve Lift - inches	0.08	0.08	0.08	0.08
HE Discharge Valve Area - sq. in .	10.77	10.77	10.77	2.28
CE Suction Valve Resist VHDS	6.66	6.66	6.66	6.66
CE Suction Valve Quantity	2	2	1	2
CE Suction Valve Lift - inches	0.08	0.08	0.08	0.08
CE Suction Valve Area - sq. in.	10.77	10.77	10.77	2.28
CE Discharge Valve Resist VHDS	6.66	6.66	6.66	6.66
CE Discharge Valve Quantity	2	2	1	2
CE Discharge Valve Lift - inches	0.08	0.08	0.08	0.08
CE Discharge Valve Area - sq. in .	10.77	10.77	10.77	2.28

Clearance Setup 6099 - Liege North 13-09 #1				
Stage	1	1	2	3
Throw	2	4	3	1
HE Clearance Min - %	14.3	14.3	19.85	20.1
HE Clearance Max - %	78.66	78.66	79.67	124.32
Max Pocket Travel - inches	16	16	16	16
HE Spacers Max Quantity	0	0	0	0
HE Clearance per Spacer - %	0	0	0	0
CE Clearance Min - %	13.3	13.3	18.6	20.32

CE Clearance Max - %	13.3	13.3	18.6	20.32
CE Spacers Max Quantity	0	0	0	0
CE Clearance per Spacer - %	0	0	0	0

Reciprocating Setup 6099 - Liege North 13-09 #1

Stage	1	1	2	3
Throw	2	4	3	1
Con. Rod Length - inches	14.5	14.5	14.5	14.5
1/3 Con Rod Weights - lbs.	19.7	19.7	19.7	19.7
Crosshead Pin Weight - lbs.	0	0	0	0
Piston Weight - lbs.	166	166.5	137.5	87
Rod Weight - lbs.	0	0	0	0
Crosshead Weight - lbs.	54.5	55	54.5	54
Balance Weight Added - lbs.	4.5	4.5	33.5	84
Total Weight - lbs.	244.7	245.7	245.2	244.7

Aerial Cooler Setup 6099 - Liege North 13-09 #1

Manufacturer	Air-X-Changer	Model	156-EH
Serial Number		Horsepower Draw	60
		Rated RPM	
Stage	1	2	3
Design Pressure MAWP - psig	655	1315	1650
Required Temperature Out - °F	120	120	120
Estimated Pressure Drop - psig	2.5	2.5	2.5
Max Design Temperature - °F	300	300	300
# of Passes/Section			
# of Tubes/Section			
# of Rows			
Tube O.D. - inches			
Tube Gauge			
Tube I.D. - inches			
Length of Tubes - feet			
Tube Material - feet			
Corrosion Allowance - inches			
Fouling Factor			
Ambient Air Design Temp - °F			

Design Conditions Setup 6099 - Liege North 13-09 #1

Stage	1	2	3
PSV Setting - psig	635	1250	1380
Max Discharge Valve Temp - °F	300	300	300
Piping/Bottles Max Temp - °F	300	300	300
Discharge Piping/Bottles MAWP - psig			

Reporting Compliance 6099 - Liege North 13-09 #1

Set Expected Interval	No
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Linked Modules 6099 - Liege North 13-09 #1

