

Module Setup 1057 - Nevis North 12-11-41-24-W4M K200			
Detection Number	1057	Compressor Name	Nevis North 12-11-41-24-W4M K200
Client Compressor #	1057	Compressor Location	12-11-41-24-W4M
Latitude	52.515763	Elevation - fast	2834.7
Longitude	-113.3606499	Time Zone	America/Edmonton
Area	CBM North	Field	North Nevis
Foreman	Scott Gamble		
Operator		Province/State	Alberta
Packager Name	EI	Package Serial #	759
EUB License #		Cost Center Code	2500513
Compressor Sound Level (dB)	0	Environmental Registration #	
Gas Working Interest %	100	Gas Pricing - \$/mscf	2
Skid Type	Housed	Electricity Pricing - \$/kWh	0.1
Field Limitation	No	Sour Service	No
Ownership Status	Owned	Compressor Application	Gathering
Disable HP Savings CFR Due To Bypass	No	Vibration Planes	1
Setup Date	11/6/2013	Setup Fee	Setup Fee # 2
		Enalysis Fee	Enalysis Fee # 1
Active Status	Surplus	Using Maintenance	Yes
Surplus Condition	Unknown		
Stand-by	No	Using SCADA	No
Remote Compressor ID	1057		
Reason Unit is not Operating	As per Mark Germsheid Feb 2016-C.C.		

Gas Analysis 1057 - Nevis North 12-11-41-24-W4M K200

Stream Name	Inlet	Fuel
Stream Type	Inlet Stream	Fuel Gas
Sample Date	01/10/2008	01/10/2008
Hydrogen	0.0000	0.0000
Helium	0.0001	0.0001
Nitrogen	0.0129	0.0129
Carbon Dioxide	0.0014	0.0014
Hydrogen Sulfide	0.0000	0.0000
Methane	0.9804	0.9804
Ethane	0.0047	0.0047
Propane	0.0004	0.0004
ISO Butane	0.0001	0.0001
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	0.32	0.32
Specific Gravity	0.563	0.563
Dehydrated Gas	No	Yes
Temperature Base - °F	60	60
Pressure Base - psia	14.696	14.696

Driver Setup 1057 - Nevis North 12-11-41-24-W4M K200

Manufacturer	Caterpillar	Model	G3516TALE
Serial Number	4EK01256	Asset Tracking Number	
Driver Type	Turbo		
Engine Configuration	V	Number of Cylinders	16
Compression Ratio	8	Catalytic Converter Installed	N/A
Rated rpm	1200	Min rpm	600
Max Horsepower @Sea Level	1150	Max Derated Horsepower	1150
Min Horsepower @Sea Level	330	Min Derated Horsepower	330
Fuel Requirements - Btu/HPhr	7414	Inlet Stream LHV - Btu/cft	900.41
Engine Timing - BTDC °	33	Air / Fuel Ratio	9.43
Max Boost - psig	19.51	Max Engine Exhaust Temp - °F	840
Exhaust Flow - cfm	6383	Exhaust O2 %	8.2
Max Engine NOx - g/bhp-hr	1.5	Max Engine CO - g/bhp-hr	1.8
Max Engine CO2 - g/bhp-hr	482	Overall Exhaust dB @ 1.5m	109
Water Pump - HP	23	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	30000	Max BTTM End Overhaul Hours	90000
Max Oil Change Hours	2500	Ambient Operating Temp - °F	60
Gear Ratio	1	Compressor rpm @ Rated Driver rpm	1200
Intake Valve Recession Limit	0.09	Exhaust Valve Recession Limit	0.09
Valves per Cylinder	2		

Engine Flags Setup 1057 - Nevis North 12-11-41-24-W4M K200

Pressure - psig	High	High	Low	Low	Temperature - °F	High	High	Low	Low
Oil Header	95	84	37	30	Oil Header	220	210	170	140
Jacket	8	7	4	3	Jacket	210	200	180	150
Fuel Gas	47	46	2	1.5	Fuel Gas	140	120	70	50
Intercooler	8	7	4	3	Intercooler	170	161	94	77
Intake Manifold	76	75	26.4	13	Intake Manifold	167	155	82	60
					Exhaust Manifold	1238	1225	628	565
					Aux. Water	135	130	117	100
					Cylinder Deviation	75			

Manufacturer	Gemini	Model	D604
Serial Number	50F767	Asset Tracking Number	
		Stroke - inches	6
Number of Throws	4	Number of Stages	3
Unloader Type	None		
Rod Load Type	Internal		
Max Compression - lbs	32500	Max Tension - lbs	32500
Total Max Rod Load - lbs	62500		
Dynamic Max Compression - lbs	32500	Dynamic Max Tension - lbs	30000
Max Overhaul Hours	34000	Max Horsepower	2400
Rated rpm	1200	Min rpm	700

Cylinder Setup		1057 - Nevis North 12-11-41-24-W4M K200			
Stage	1	1	2	3	
Throw	1	3	4	2	
Cylinder Model	95	95	95	89	
Dummy Cylinder	No	No	No	No	
Cylinder Serial #	95C310	95C311	95C494	89C4123	
Cylinder MAWP - psig	635	635	1500	2200	
Lube Status	Lube	Lube	Lube	Lube	
Cylinder Action	DA	DA	DA	DA	
Cylinder Diameter - inches	16.5	16.5	9.5	6	
Rod Diameter - inches	2	2	2	2	
Tail Rod Diameter - inches	0	0	0	0	
Associated Gas Stream	Inlet	Inlet	Inlet	Inlet	
Orifice Data					
Suct. Internal Pipe Diam. - inches	6.875	6.875	4.897	3.152	
Suct. Orifice Diam. - inches	0	0	0	0	
Disc. Internal Pipe Diam. - inches	6.875	6.875	4.897	3.152	
Disc. Orifice Diam. - inches	0	0	0	0	

Cylinder Heating/Cooling Factor		1057 - Nevis North 12-11-41-24-W4M K200			
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Heating/Cooling Factor - %	0	0	0	0	
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Cylinder Blowby Thresholds		1057 - Nevis North 12-11-41-24-W4M K200			
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SA Severe Threshold - %	20	20	20	20	
SA Warning Threshold - %	12	12	12	12	
DA Severe Threshold - %	15	15	15	15	
DA Warning Threshold - %	7	7	7	7	
Deviation Severe Threshold - %	1000	1000	1000	1000	
Deviation Warning Threshold - %	10	10	10	10	

Valve Setup		1057 - Nevis North 12-11-41-24-W4M K200			
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Stage	1	1	2	3	
Throw	1	3	4	2	
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 .	16.46	16.46	10.76	2.4	
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 .	16.46	16.46	10.76	2.4	
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.	16.46	16.46	10.76	2.4	
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 .	16.46	16.46	10.76	2.4	

Clearance Setup 1057 - Nevis North 12-11-41-24-W4M K200					
Stage	1	1	2	3	
Throw	1	3	4	2	
HE Clearance Min - %	14.07	14.07	16.96	20.23	
HE Clearance Max - %	70.9	70.9	77.05	124.2	
Max Pocket Travel - inches	10.25	10.25	16.01	16.01	
HE Spacers Max Quantity	0	0	0	0	
HE Clearance per Spacer - %	0	0	0	0	
CE Clearance Min - %	13.44	13.44	15.57	20.33	
CE Clearance Max - %	13.44	13.44	15.57	20.33	
CE Spacers Max Quantity	0	0	0	0	
CE Clearance per Spacer - %	0	0	0	0	

Reciprocating Setup 1057 - Nevis North 12-11-41-24-W4M K200					
Stage	1	1	2	3	
Throw	1	3	4	2	
Con. Rod Length - inches	14.5	14.5	14.5	14.5	
1/3 Con Rod Weights - lbs.	0	0	0	0	
Crosshead Pin Weight - lbs.	0	0	0	0	
Piston Weight - lbs.	258.5	258.5	191.7	155	
Rod Weight - lbs.	0	0	0	0	
Crosshead Weight - lbs.	0	0	0	0	
Balance Weight Added - lbs.	0	0	66.8	103.5	
Total Weight - lbs.	258.5	258.5	258.5	258.5	

Aerial Cooler Setup 1057 - Nevis North 12-11-41-24-W4M K200

Manufacturer	Air-X-Changer		Model	144EH		
Serial Number	964643		Horsepower Draw	46		
			Rated RPM			
Stage	1	2	3			
Design Pressure MAWP - psig	655	1250	1440			
Required Temperature Out - °F	120	120	120			
Estimated Pressure Drop - psig	5	5	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 1057 - Nevis North 12-11-41-24-W4M K200

Stage	1	2	3			
PSV Setting - psig	550	1250	1440			
Max Discharge Valve Temp - °F	300	300	300			
Piping/Bottles Max Temp - °F	300	300	300			
Discharge Piping/Bottles MAWP - psig						

Reporting Compliance 1057 - Nevis North 12-11-41-24-W4M K200

Set Expected Interval	No
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Linked Modules 1057 - Nevis North 12-11-41-24-W4M K200

Links to related compressor modules.