

Module Setup 1082 - Nevis North 02-01-41-24-W4M K240			
Detection Number	1082	Compressor Name	Nevis North 02-01-41-24-W4M K240
Client Compressor #	1082	Compressor Location	02-01-41-24-W4M
Latitude	52.493945	Elevation - fast	2696.9
Longitude	-113.3246231	Time Zone	America/Edmonton
Area	CBM North	Field	North Nevis
Foreman	Scott Gamble		
Operator		Province/State	Alberta
Packager Name	Toromont	Package Serial #	
EUB License #		Cost Center Code	2500572
Compressor Sound Level (dB)	0	Environmental Registration #	
Gas Working Interest %	100	Gas Pricing - \$/mscf	3
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	5/6/2014	Setup Fee	Setup Fee # 1
		Enalysis Fee	Enalysis Fee # 1
Active Status	Surplus	Using Maintenance	Yes
Surplus Condition	Unknown		
Stand-by	No	Using SCADA	No
Remote Compressor ID	1082		
Reason Unit is not Operating	Surplus as per D.Laye April 2016 - BN		

Stream Name	GENERIC INLET STREAM	Generic Fuel Gas
Stream Type	Inlet Stream	Fuel Gas
Sample Date	05/16/2014	05/16/2014
Hydrogen	0.0000	0.0000
Helium	0.0001	0.0001
Nitrogen	0.0102	0.0102
Carbon Dioxide	0.0010	0.0010
Hydrogen Sulfide	0.0000	0.0000
Methane	0.9838	0.9838
Ethane	0.0046	0.0046
Propane	0.0003	0.0003
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	0.24	0.24
Specific Gravity	0.562	0.562
Dehydrated Gas	Yes	Yes
Temperature Base - °F	60	60
Pressure Base - psia	14.696	14.696

**Driver Setup 1082 - Nevis North 02-01-41-24-W4M K240**

Manufacturer	Caterpillar	Model	G3516TALE
Serial Number	4EK03997/4P8329	Asset Tracking Number	
Driver Type	Turbo		
Engine Configuration	V	Number of Cylinders	16
Compression Ratio	8	Catalytic Converter Installed	No
Rated rpm	1200	Min rpm	900
Max Horsepower @Sea Level	1085	Max Derated Horsepower	1085
Min Horsepower @Sea Level	814	Min Derated Horsepower	786
Fuel Requirements - Btu/HPhr	7449	Inlet Stream LHV - Btu/cft	902.81
Engine Timing - BTDC °	33	Air / Fuel Ratio	9.46
Max Boost - psig	30.65	Max Engine Exhaust Temp - °F	842
Exhaust Flow - cfm	5947	Exhaust O2 %	8
Max Engine NOx - g/bhp-hr	2	Max Engine CO - g/bhp-hr	1.8
Max Engine CO2 - g/bhp-hr	484	Overall Exhaust dB @ 1.5m	111.6
Water Pump - HP	21.7	Other Auxiliary Draw - HP	0
Max Top End Overhaul Hours	30000	Max BTTM End Overhaul Hours	90000
Max Oil Change Hours	1250	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 1082 - Nevis North 02-01-41-24-W4M K240**

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	D330	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	25000	Max Horsepower	2400
Rated rpm	1200	Min rpm	700

Cylinder Setup 1082 - Nevis North 02-01-41-24-W4M K240					
Stage	1	1	2	3	
Throw	1	3	4	2	
Cylinder Model	DUMMY	12-13.5-95-D60	9.5-95-D60	95	
Dummy Cylinder	Yes	No	No	No	
Cylinder Serial #		9591666	9591617	8994510	
Cylinder MAWP - psig	0.01	800	1800	2200	
Lube Status	Lube	Lube	Lube	Lube	
Cylinder Action	DA	DA	DA	DA	
Cylinder Diameter - inches	0.01	13.5	9.5	6	
Rod Diameter - inches	0.01	2	2	2	
Tail Rod Diameter - inches	0	0	0	0	
Associated Gas Stream	GENERIC INLET STREAM	GENERIC INLET STREAM	GENERIC INLET STREAM	GENERIC INLET STREAM	

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	

Cylinder Heating/Cooling Factor 1082 - Nevis North 02-01-41-24-W4M K240					
Heating/Cooling Factor - %	0	0	0	0	

Cylinder Blowby Thresholds 1082 - Nevis North 02-01-41-24-W4M K240					
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 1082 - Nevis North 02-01-41-24-W4M K240					
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	0.01	0.102	0.087	0.102	
HE Suction Valve Area - sq. in .	0.01	10.77	9.12	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	0.01	0.079	0.079	0.102	
HE Discharge Valve Area - sq. in .	0.01	8.3	8.3	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	0.01	0.102	0.087	0.102	
CE Suction Valve Area - sq. in.	0.01	10.77	9.12	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	0.01	0.079	0.079	0.102	
CE Discharge Valve Area - sq. in .	0.01	8.3	8.3	2.4	

Clearance Setup		1082 - Nevis North 02-01-41-24-W4M K240			
Stage	1	1	2	3	
Throw	1	3	4	2	
HE Clearance Min - %	0.01	15.01	16.96	20.23	
HE Clearance Max - %	0.01	87.9	77.35	114.67	
Max Pocket Travel - inches	0.01	16.26	16.14	17.6	
HE Spacers Max Quantity	0	4	2	4	
HE Clearance per Spacer - %	0	1.31	2.64	5.98	
CE Clearance Min - %	0.01	14.24	15.57	20.33	
CE Clearance Max - %	0.01	14.24	15.57	20.33	
CE Spacers Max Quantity	0	4	2	4	
CE Clearance per Spacer - %	0	1.24	2.52	5.65	

Reciprocating Setup		1082 - Nevis North 02-01-41-24-W4M K240			
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.	18.85	18.85	18.85	18.85	
Crosshead Pin Weight - lbs.	0	0	0	0	
Piston Weight - lbs.	0	170.34	120.28	89.71	
Rod Weight - lbs.	0	0	0	0	
Crosshead Weight - lbs.	153.66	63.95	114.01	63.95	
Balance Weight Added - lbs.	0	0	0	0	
Total Weight - lbs.	172.51	253.14	253.14	172.51	

**Aerial Cooler Setup 1082 - Nevis North 02-01-41-24-W4M K240**

Manufacturer	Air-X-Hemphill		Model	144EF		
Serial Number	20-18214		Horsepower Draw	43.4		
			Rated RPM	0		
Stage	1	2	3			
Design Pressure MAWP - psig	655.99	1250	1650			
Required Temperature Out - °F	120	120	120			
Estimated Pressure Drop - psig	5	5	5			
Max Design Temperature - °F	300.99	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 1082 - Nevis North 02-01-41-24-W4M K240**

Stage	1	2	3			
PSV Setting - psig	655	1250	1026			
Max Discharge Valve Temp - °F	300	300	300			
Piping/Bottles Max Temp - °F	300	300	300			
Discharge Piping/Bottles MAWP - psig	655	1315	1650			

**Reporting Compliance 1082 - Nevis North 02-01-41-24-W4M K240**

Set Expected Interval	No
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**Linked Modules 1082 - Nevis North 02-01-41-24-W4M K240**

Links to related compressor modules.