Compressor Safety Inspection Checklist

CSIC Number:

COMPRESSOR

Plant Owner: San Jose

Address: 9503 Jones Rd, Houston, TX 77065, USA

Date: Apr 3, 2023 11:22 am thru Apr 19, 2023 12:00 am

Clauger Inspector: dsaf

Plant Contact: Jose Cortez | Telephone: (904) 775-0478 | Email: jcortez.clauger@gmail.com

Compressor Info

Plant: Jose Cortez

Unit Location: kjasdkj | Identification Label/No: kjhsadkjh | Run Hours:

Application	Type	Oil Cooling
◉ High Stage	○ Rotary Screw	○ Shell & Tube
○ Booster	◉ Reciprocating	○ Plate & Frame
○ Swing	○ Rotary Vane	○ Plate & Shell
○ Single Stage	○ Vertical Reciprocating	○ Welded Plate
○ Pump Out		◉ Liquid Injection
		○ Other

Application Data

Design Capacity (TR): jh

Suction Setpoint (psig): hjk

Suct Pres (psig): kj

Suct Temp (°F): hkj

Motor Drive: ◉ Direct ○ Belt

Disch Pres (psig): kj

Disch Temp (°F): jhk

Oil Pres (psig): kk

Oil Temp (°F): jkj

Relief Data

Application: ○ Oil Sep ◉ Internal ○ None

Mfg: kj

Set Pres (psig): jhk

Capacity scfm: jhk

Capacity #air/min: jk

Compressor / Package Nameplate Data

Compressor

Mfg. Name, Model, Serial No.: jh | Year Mfg.: hj

Compressor Design Pressure (psig): ghhg

Max Speed (rpm): 324

Compression/Volume Ratio: jkk

Package

Package Mfg. Model, Serial, Sales Order # : hkkhgj

Max Design Pressure (psig): adsf

Max Speed (rpm): 324

Other value: asdf

Direction of Rotation: ○ Clockwise ○ Counter-clockwise ○ Not Represented

Motor Nameplate Data

Manufacturer Name, Model, Serial No.: kghj

Frame Size: ghjg | Voltage (V): jhgk | Speed (RPM): 65 | Power (hp): jh

Type: hjg | FLA (amps): jhgjh | Phase: gjhg | Frequency (Hz): jh

Motor Nameplate Data

Alarm/Cutout Values	Alarm (Warning)	Cutout (Shuitdown)	PS = pressure switch TD = transducer	Cutouts/alarms function properly? *
Low Suction Pressure (psig):	hjgdsahjgjh	gjh	◉ TD ○ PS	◉ Yes ○ No ○ Unknown
High Discharge Pressure (psig):	jhgjh	gjh	◉ TD ○ PS	◉ Yes ○ No ○ Unknown
High Discharge Temperature (°F):	hjgjh	kjhkj	◉ TD ○ PS	◉ Yes ○ No ○ Unknown
Low Oil Pressure (psig)	kjhgkj	jkhkj	◉ TD ○ PS	◉ Yes ○ No ○ Unknown
Low Oil Sep Temperature (°F):	fgdf	ads	○ TD ◉ PS	○ Yes ◉ No ○ Unknown

Requirement/ Recommendation	Conforms	Additional Comments	Target Date
A) Equipment labeled?	(•) Y ( ) N ( ) NA	comments 1	Apr 12, 2023 12:00 am
B) Nameplate both legible and complete?	( ) Y ( ) N (•) NA		
C) Suitable for ammonia?	( ) Y ( ) N (•) NA		
D) Operating within limits? **	( ) Y ( ) N (•) NA		
E) Free from ammonia leaks?	( ) Y ( ) N (•) NA		
F) Free from abnormal sounds and excessive vibration?	( ) Y ( ) N (•) NA		
G) Entire unit anchored and grouted securely in place?	( ) Y ( ) N (•) NA		
H) Safe access for Inspection, Testing, and Maintenance?	( ) Y ( ) N (•) NA		
I) Pressure gauges and/or transducers appear to be functioning properly? **	( ) Y ( ) N (•) NA		
J) Suction, discharge and oil safety cutouts functioning adequately? *	( ) Y ( ) N (•) NA		
K) Compressor Body:			
a. Belts, sheaves, couplings, (etc.) in good working order and adequately guarded?	( ) Y ( ) N (•) NA		
b. Free from excessive ice buildup?	( ) Y ( ) N (•) NA		
c. Direction of rotation arrow cast in or permanently affixed to unit?	( ) Y ( ) N (•) NA		
d. Unit free from modifications, alterations, damage, or repairs such that casing integrity has been affected? If “No”, has it been pressure tested and documentation filed?	( ) Y ( ) N (•) NA		
L) Compressor Valves:			
a. Are there suction and discharge stop valves?	( ) Y ( ) N (•) NA		
b. Is there a discharge check valve?	( ) Y ( ) N (•) NA		
c. Are valves in good condition?	( ) Y ( ) N (•) NA		
d. Are critical valves tagged?	( ) Y ( ) N (•) NA		
M) Compressor Piping:			
a. All piping has labels per ANSI/IIAR2?	( ) Y ( ) N (•) NA		
b. Suction pipe insulation free of damage, moisture, frost, etc.?	( ) Y ( ) N (•) NA		
c. The connection to suction header is NOT on the bottom of the pipe (guarding against liquid slugs)?	( ) Y ( ) N (•) NA		

Corrosion

Compressor corrosion:	◉ Clean (no visible corrosion)	○ Minor	○ Moderate	○ Extensive
Motor corrosion:	○ Clean (no visible corrosion)	○ Minor	◉ Moderate	○ Extensive
Frame corrosion:	○ Clean (no visible corrosion)	○ Minor	◉ Moderate	○ Extensive
Valve Corrosion:	◉ Clean (no visible corrosion)	○ Minor	○ Moderate	○ Extensive
Valve Pitting	○ Clean (no visible corrosion)	◉ Minor	○ Moderate	○ Extensive
Pipe Corrosion:	◉ Clean (no visible corrosion)	○ Minor	○ Moderate	○ Extensive
Pipe Pitting:	○ Clean (no visible corrosion)	○ Minor	◉ Moderate	○ Extensive