



Preventative Maintenance and Combustion Report

18335990953

Submitter Name:

Michael Jensen | michael.g.jensen@cdncontrols.ca

Date Sent on Device:

Oct 12, 2023 8:39:17 AM MST

PREVENTATIVE MAINTENANCE AND COMBUSTION

Date:	Oct 11, 2023
Job #	2310-2277
Company	Murphy
Contact:	Cody Lightbody
Phone:	5872334173
Email:	cody_lightbody@murphyoilcorp.com
Area:	Tupper West
LSD:	7-15-78-18W6

Equipment Information

Make:	NWP
Type:	Line heater
Serial:	NWP-1899.01
A#	573461
CRN #	P9408.213
Vessel Diameter (in inches)	42
Vessel Length (in feet)	16
Vessel Medium	Glycol

Fire Tubes

Number:	1
Diameter (in inches):	12
Length (in feet):	15
Flux	10000
Rating	942000 btu/hr
Configuration:	Horizontal
Condition of Fire Tube:	Good
Stack Diameter:	12
Stack Height:	12
Stack Condition:	Good
Arrestor Make:	Wenco
Arrestor Style:	Aluminum
Arrestor Size:	24
Arrestor Condition:	Good and clean

Arrestor Position	Front
Burner Information	
Make:	ACL
Size:	11/2"
Type:	Venturi
Orifice:	11/64"
Configuration	Good
Nozzle	ACL
Condition:	Good
Length Gas Connect to Tip	32"
Airplate	ACL
Pilot Information	
Mixer:	ACL
Size:	1/2"
Nozzle:	ACL
Orifice:	#72
Condition:	Good
Control	
BMS	ACL 5100
Serial #:	51-12/24-072210-02
Voltage:	24
Flame Fail:	ACL 5100
Flame Signal	ACL 5100
Main Regulator:	Fisher 627R
Pilot Regulator	Fisher 67CFR
Temp Control	Kimray HT12
High Temp Control:	CCS 6900TE14
Temp Cont. Valve	Fisher 119
Esd Control Valve:	ACL ASSV-1 POC
Fuel Gas Low Pressure Switch	UE12
Fuel Gas High Pressure Switch	UE12
Pilot Solenoid:	ACL
Main Solenoid:	ACL
Low Level Switch	SOR 1510B
Appliance Additional Information	
Fuel Gas PSV Location	Plant
Pilot Test Fire Valve:	Ball valve

Pilot Shut off valve:	Ball valve
Main Test Fire Valve:	Ball valve
Main Shut off Valve:	Ball valve
Calibration Isolation Valves:	No
Y - Strainer:	Yes
Ignition Coil Location:	In BMS panel
TC Head Make/Model:	Kimray HT12
Thermowell Size	1"
Level Switch Connect Size	2"
Burner Housing Connection	3/4"

Burner Info

NEW REPEATABLE SECTION

1 OF 1

Burner Pressure	10
Pilot Pressure	5
Flue Temp. F	552.3
O2%	6.7
CO ppm	33
CO2%	9
Ex Air %:	32.2
Draft:	0
Efficiency%	76.6

Service Comments

Arrived on site and received a permit from the operator. Started by isolating the fuel gas and removing the burners. Cleaned and inspected the nozzles and orifices. Inspected the ignition rod and module wiring. Cleaned the flame arrestor. Placed burners back in housing and started the heater. Checked all shutdowns including any pressure switches, temperature controls, flame fails and level indicating devices. Filled out a combustion report including taking pictures of the unit, gathering the information off of the unit for the report and taking combustion readings.

Everything is cleaning and working as it should.

Field Approval

CSA Field Inspection Completed:	NO
Combustion Technician:	Mike Jensen
Email:	michael.g.jensen@cdncontrols.ca

Pictures

DESCRIPTIONS

PHOTOS

LSD



Overall line heater



Equipment tag



Equipment tag



Fuel train



BMS panel



BMS panel nameplate



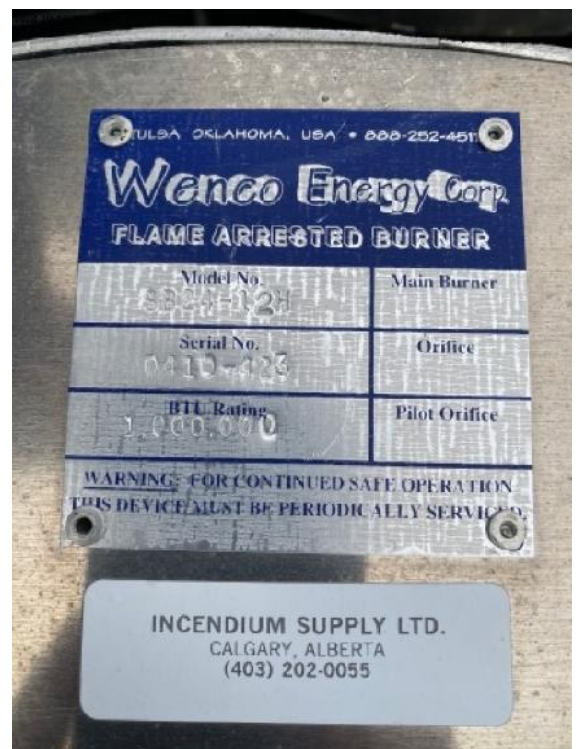
Nozzles clean



Pilot orifice clean



Flame arrestor tag



Flame arrestor clean



Combustion readings



Combustion readings



Stack bolt



SHUT DOWN TEST REPORT

Date: 2023-10-11
Job # 2310-2277
Company Murphy
Contact: Cody Lightbody
Phone: 5872334173
Email: cody_lightbody@murphyoilcorp.com
Area: Tupper West
LSD: 7-15-78-18W6

Equipment Information

Make: NWP
Type: Line heater

Device 1

Select Low Flow Type Low Level Shutdown
Make SOR
Model 1510B
Pneumatic or Electric Electric
Test Result Pass
Photo

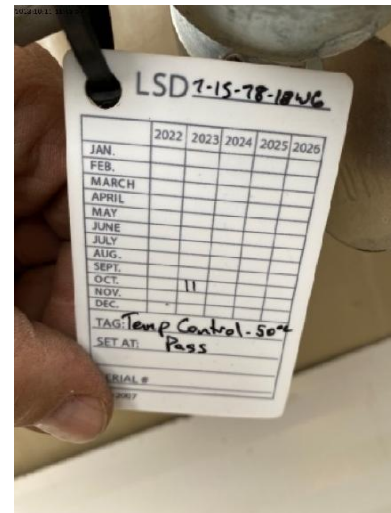


Device 2

High Temp SD
Make CCS
Model 6900TE14
Set Points: Found (in C) 90
Set Points: Left (in C) 90

Test Result

Pass

Photo**Device 3****Temp Control****Make** Kimray**Model** HT12**Set Points: Found (in C)** 50**Set Points: Left (in C)** 50**Test Result** Pass**Photo****Device 4****Fuel Gas High Pressure SW:****Make** UE**Model** 12**Set Points: Found (in Psi)** 15**Set Points: Left (in Psi)** 15**Test Result** Pass

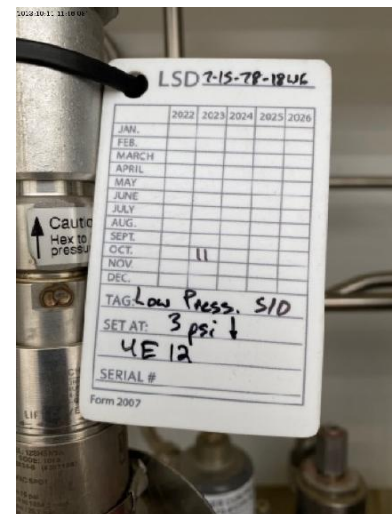
Photo



Device 5

Fuel Gas Low Pressure SW:

Make UE
Model 12
Set Points: Found (in Psi) 3
Set Points: Left (in Psi) 3
Test Result Pass
Photo



Device 6

Flame Fail:

Make ACL
Model 5100
Pilot Reading:: Found 100
Pilot Reading: Left 100
Test Result Pass

Photo



Combustion Technician

Mike Jensen

Email

michael.g.jensen@cdncontrols.ca

FLAME ARRESTOR TEST REPORT

Date: 2023-10-11
Job # 2310-2277
Company Murphy
Contact: Cody Lightbody
Phone: 5872334173
Email: cody_lightbody@murphyoilcorp.com
Area: Tupper West
LSD: 7-15-78-18W6

Equipment Information

Make: NWP
Type: Line heater

Burner Housing and Flame Arrestor

Flame Arrestor Test in accordance with API RP 12N: Recommended Practice for Operation, Maintenance and Testing of FireBox Flame Arrestors

Type Aluminum
Make Wenco
Model SB24-12H
Serial Number: 0410-423
Arrestors 1
Position Front
Condition Good and clean
Size (in inches) 24

Photos (Maximum 10 photos)



Combustion Technician
Email

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