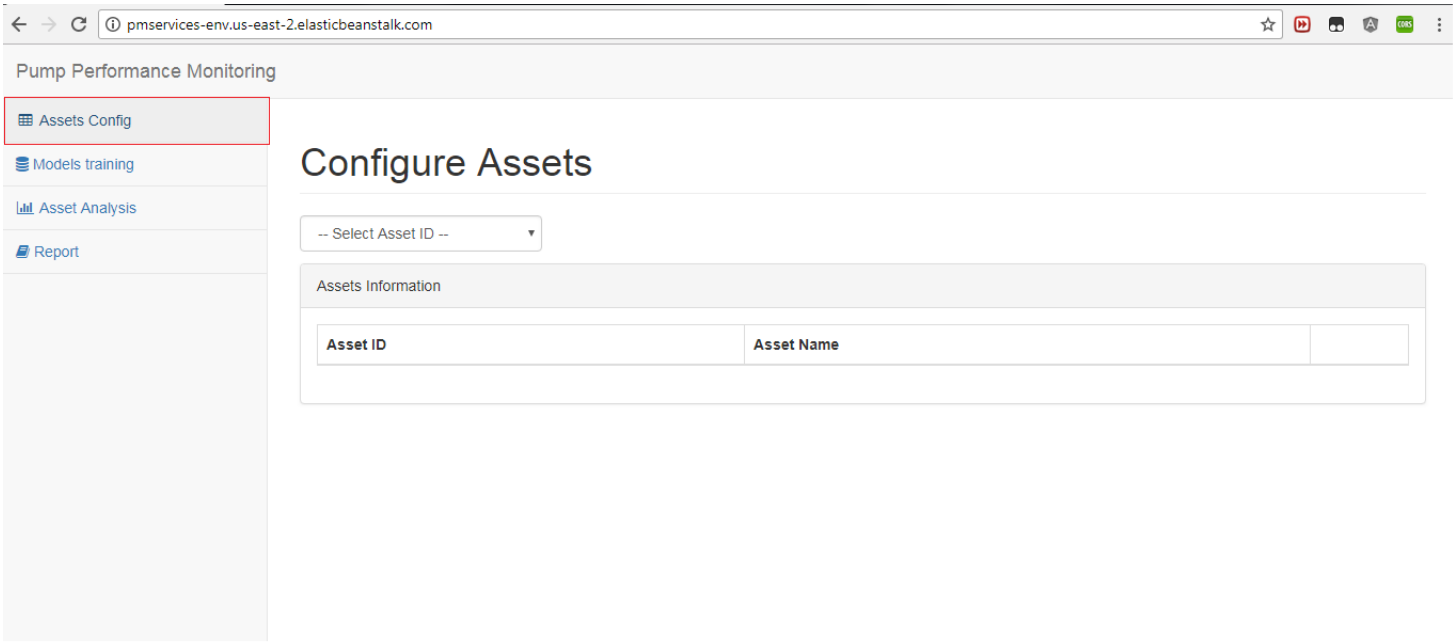
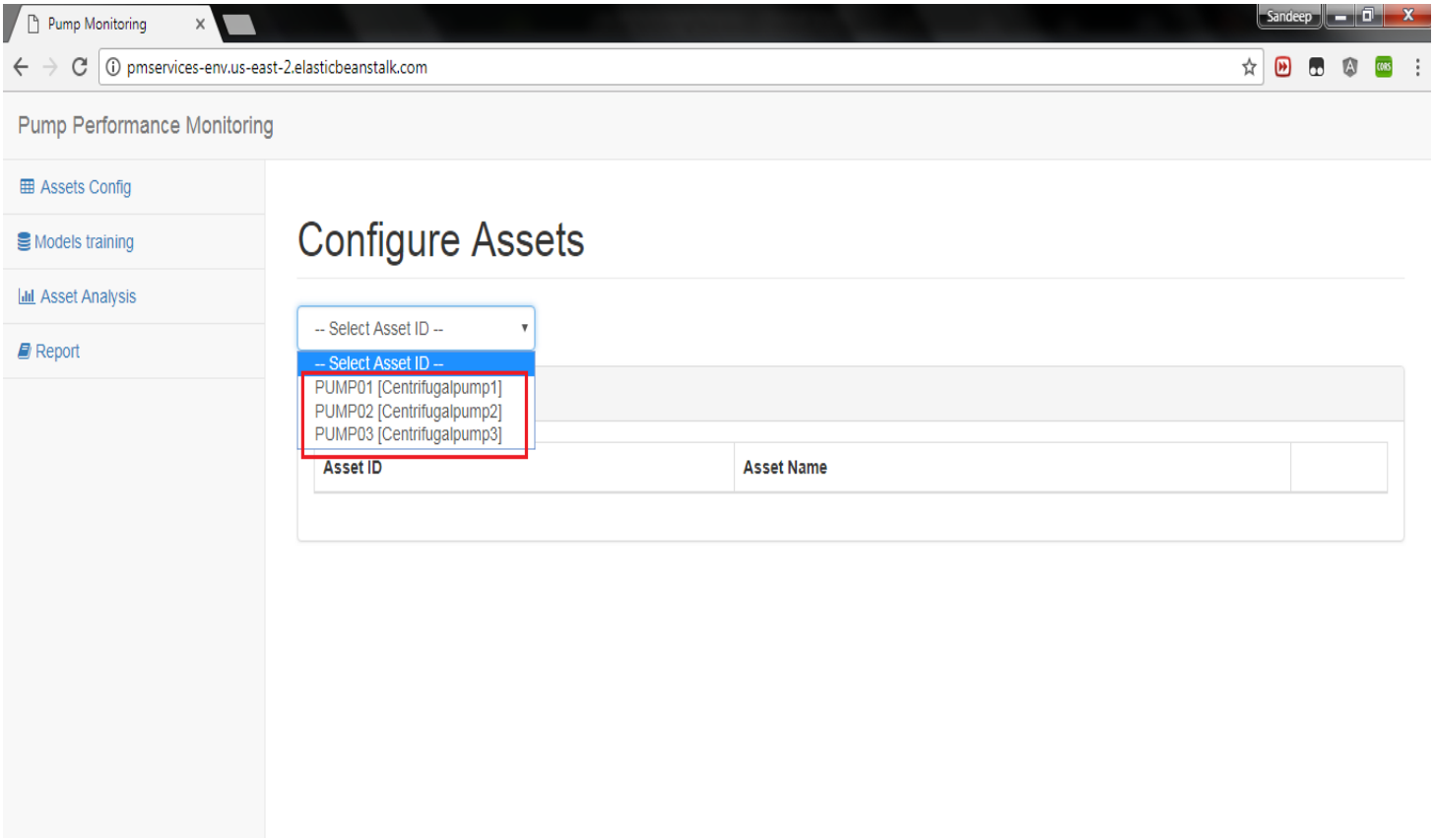
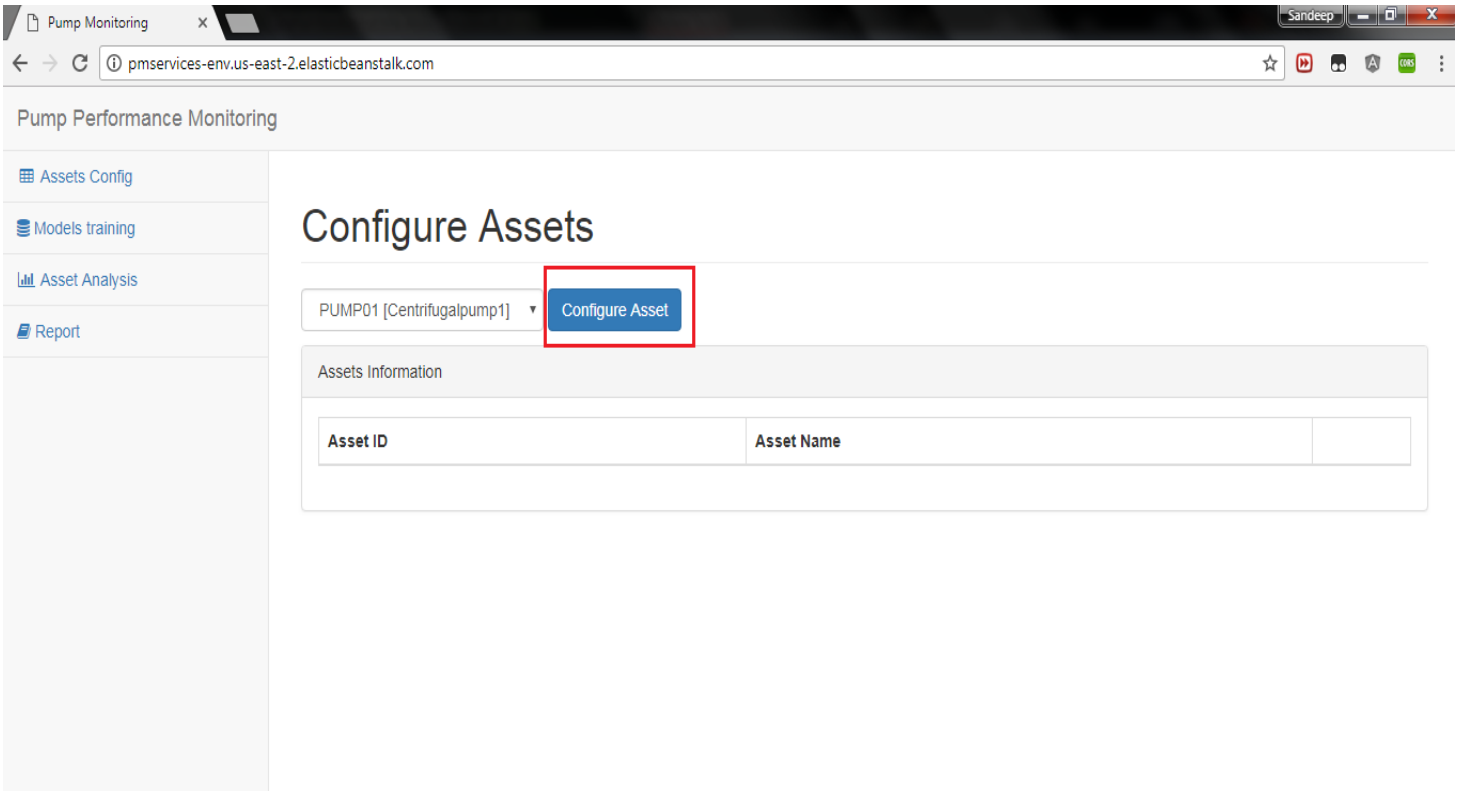
Home Page

Configure Assets



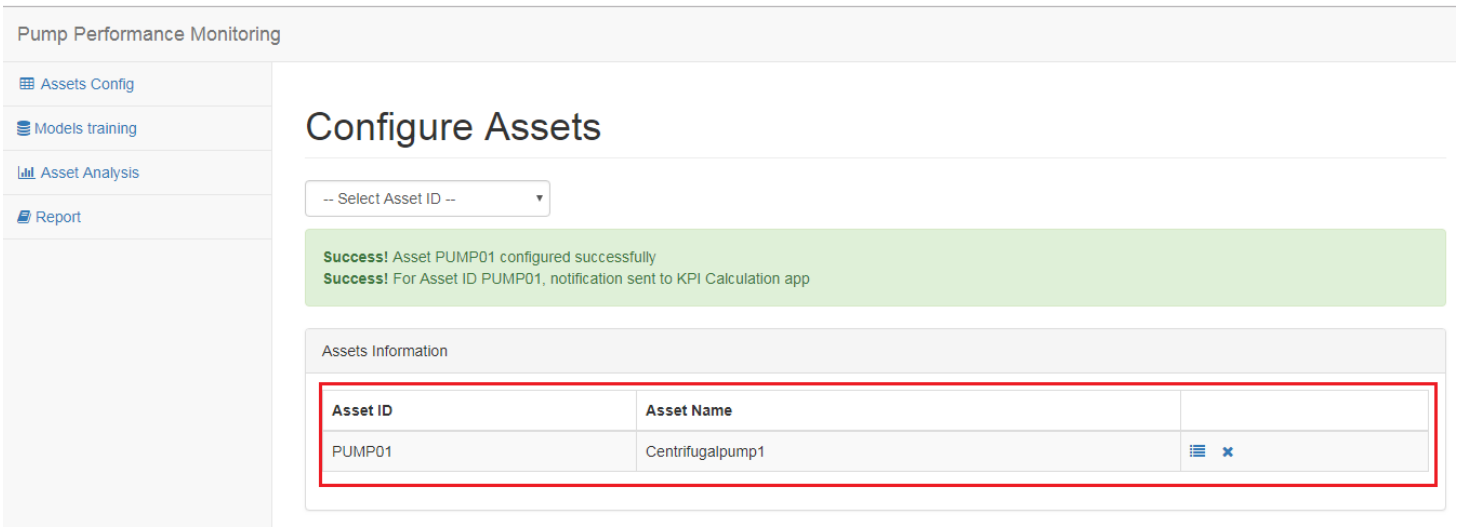

Pump Monitoring
Sandeep
pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Configure Assets
-- Select Asset ID --
-- Select Asset ID --
PUMP01 [Centrifugalpump1]
PUMP02 [Centrifugalpump2]
PUMP03 [Centrifugalpump3]
Asset ID
Asset Name


Pump Monitoring
Sandeep
pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Configure Assets
PUMP01 [Centrifugalpump1]
Configure Asset
Assets Information
Asset ID
Asset Name

com

Asset ID	PUMP01
Asset Name	Centrifugalpump1
Rated Power (KW)	5
M. Efficiency (%)	96
M. Rated speed(rpm)	1495
Min Rated F.(gpm)	132
Fluid density(g/cm^3)	1
Threadhold limit(%)	10
S. Diameter(Inch.)	1.5
D. Diameter(Inch.)	1
Elevation Difference(ft.)	5

Close | Save changes



Pump Performance Monitoring

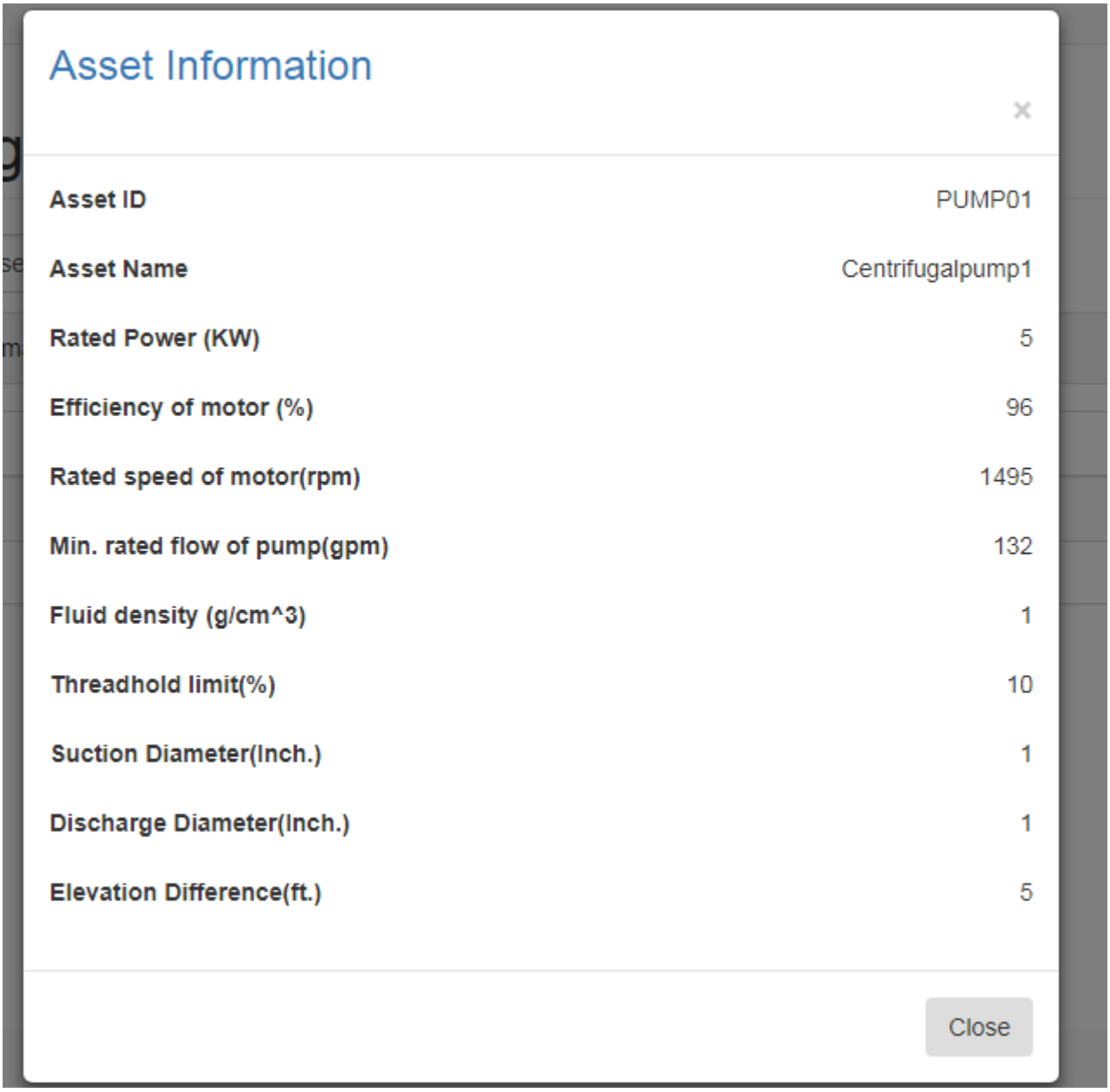
- Assets Config
- Models training
- Asset Analysis
- Report

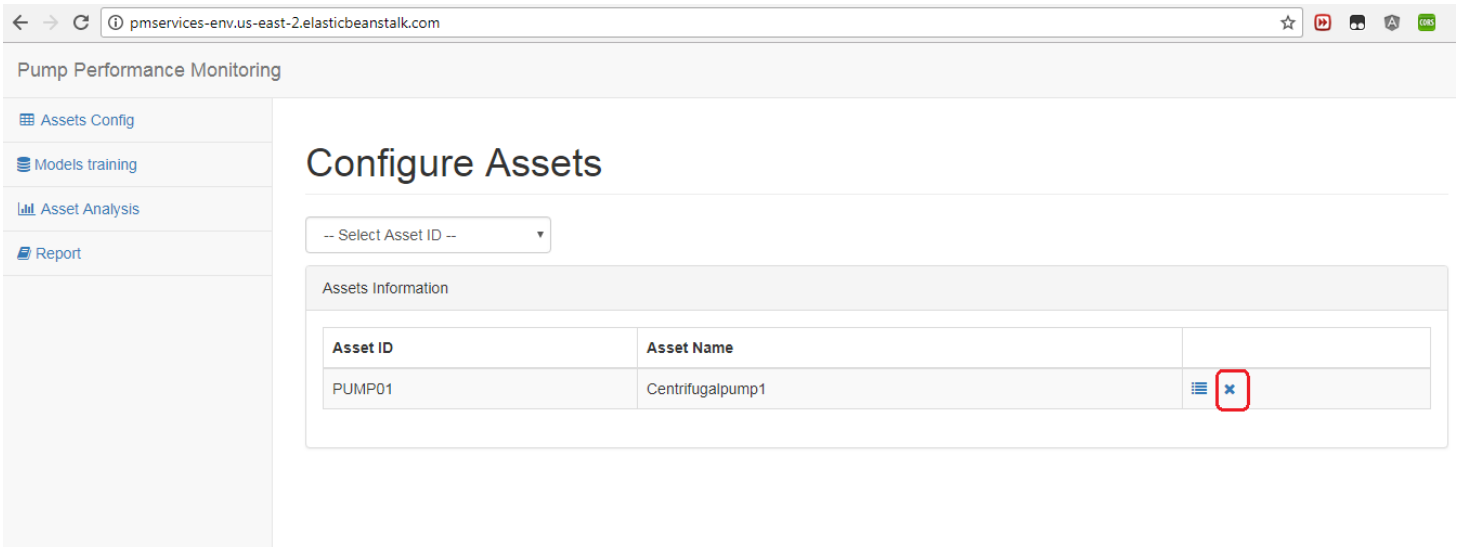
Configure Assets

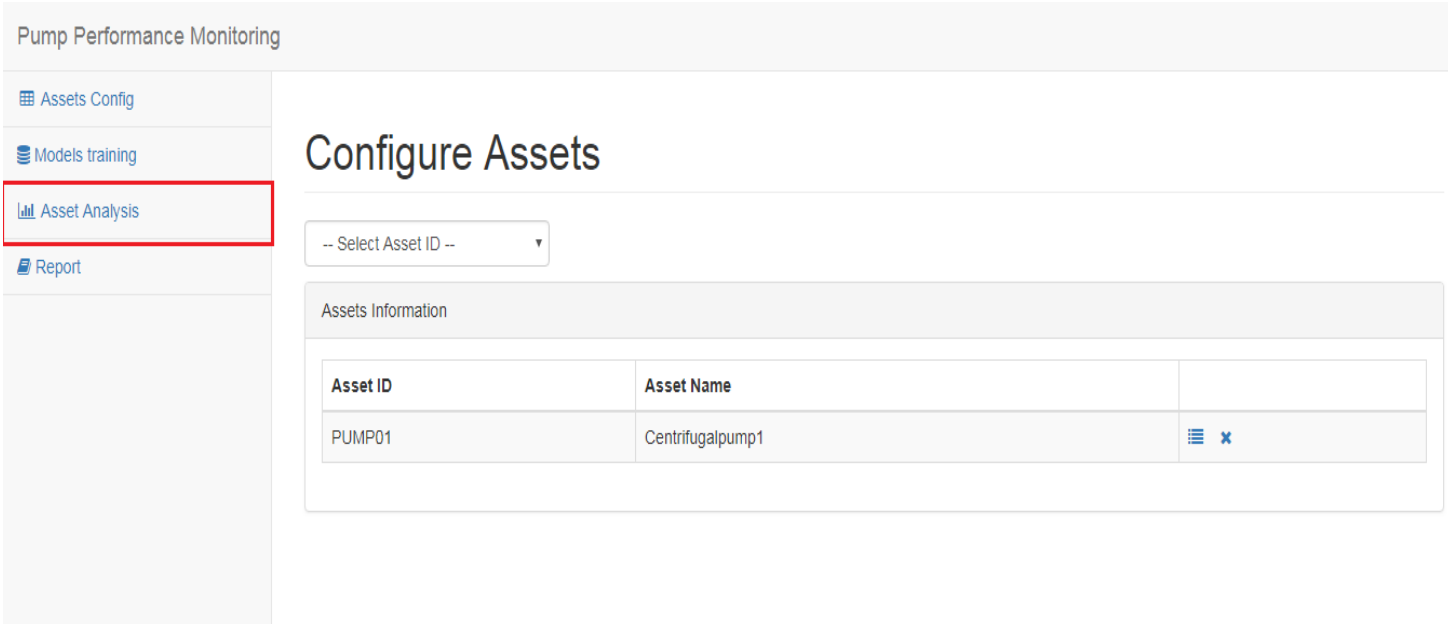
-- Select Asset ID --

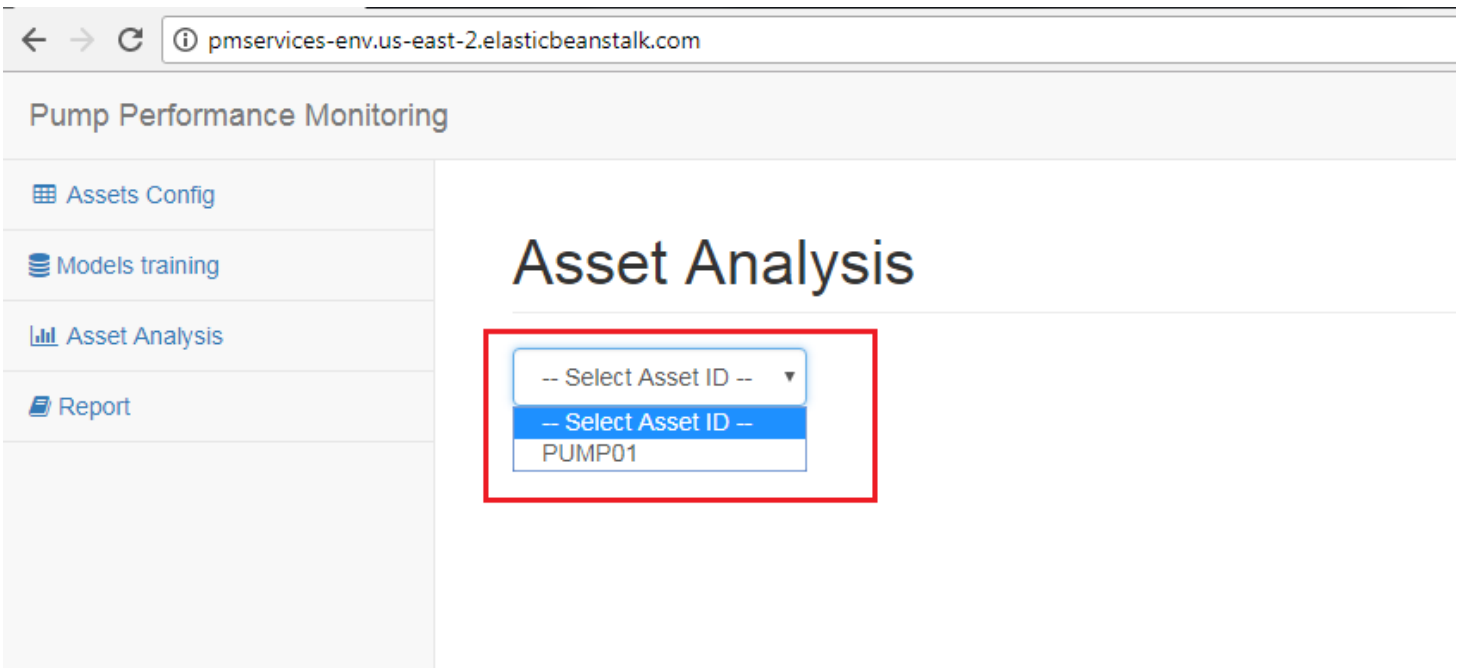
Assets Information

Asset ID	Asset Name	
PUMP01	Centrifugalpump1	




pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Configure Assets
-- Select Asset ID --
Assets Information
Asset ID
Asset Name
PUMP01
Centrifugalpump1


Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Configure Assets
-- Select Asset ID --
Assets Information
Asset ID
Asset Name
PUMP01
Centrifugalpump1


pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Asset Analysis
-- Select Asset ID --
-- Select Asset ID --
PUMP01

- Assets Config
- Models training
- Asset Analysis
- Report

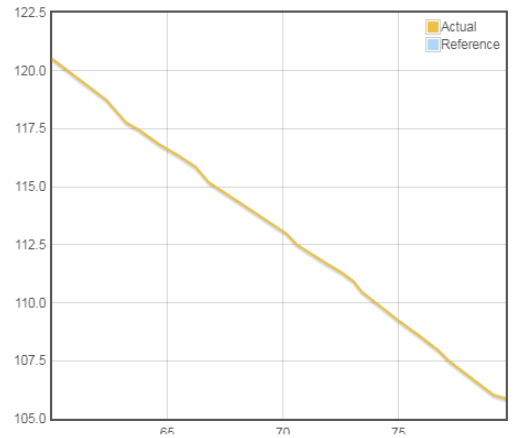
Asset Analysis

PUMP01

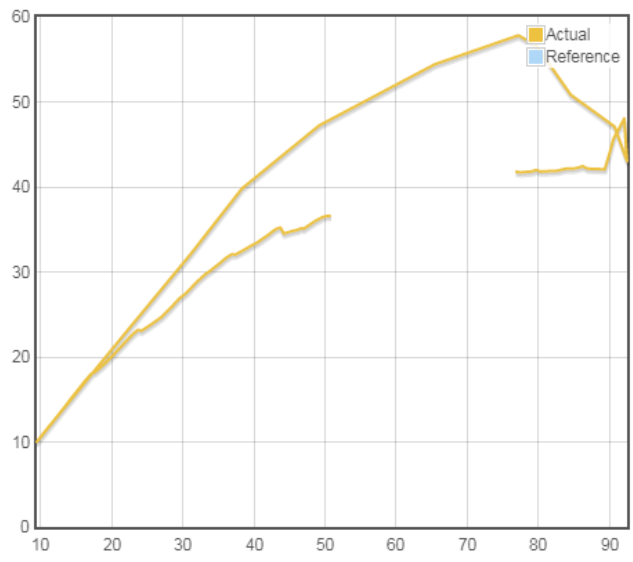
Alarms 1

- Blockage
- Dry Running
- Low Pump Efficiency
- Deviated TDH
- Impeler wearing

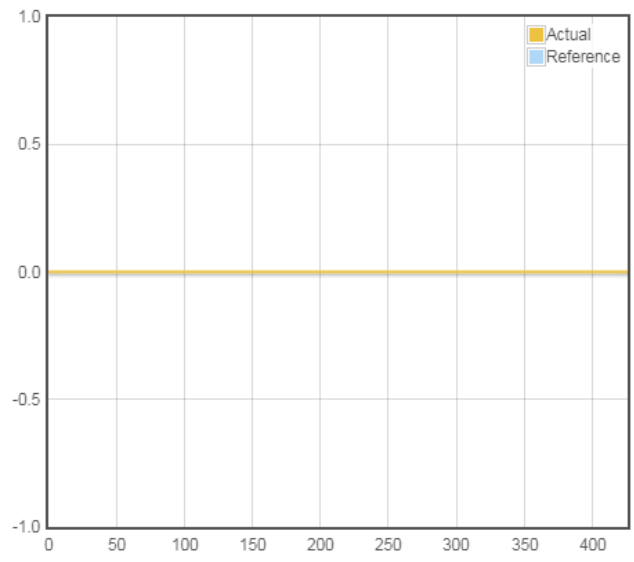
Flow vs. TDH 2

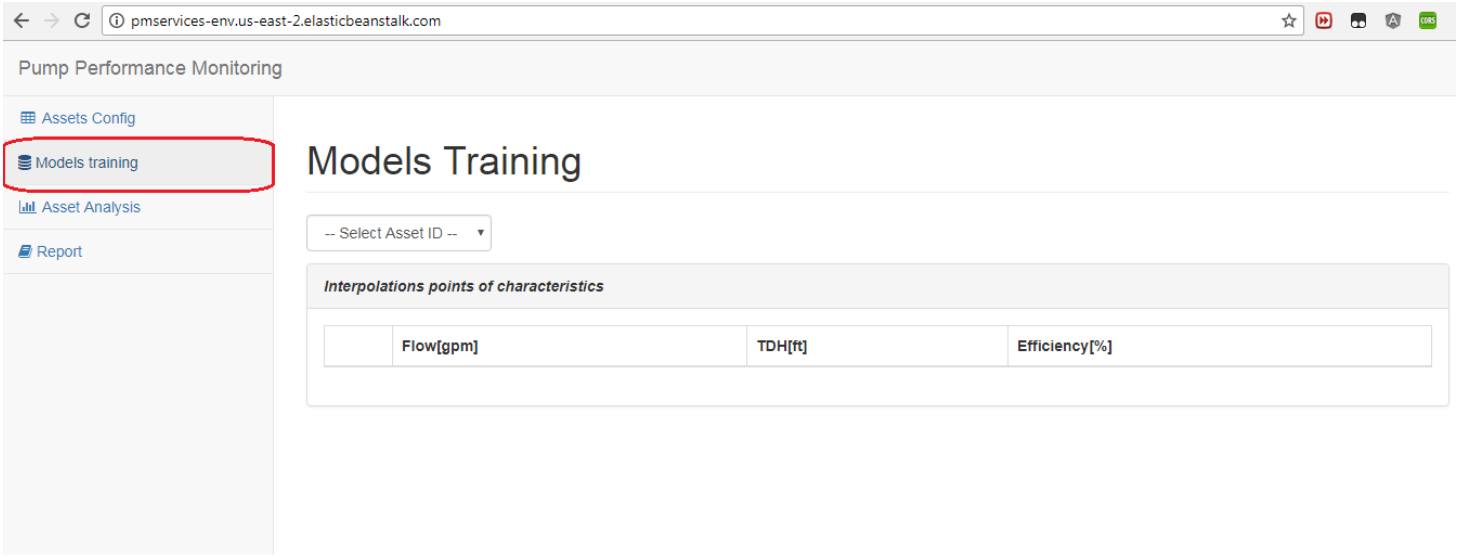


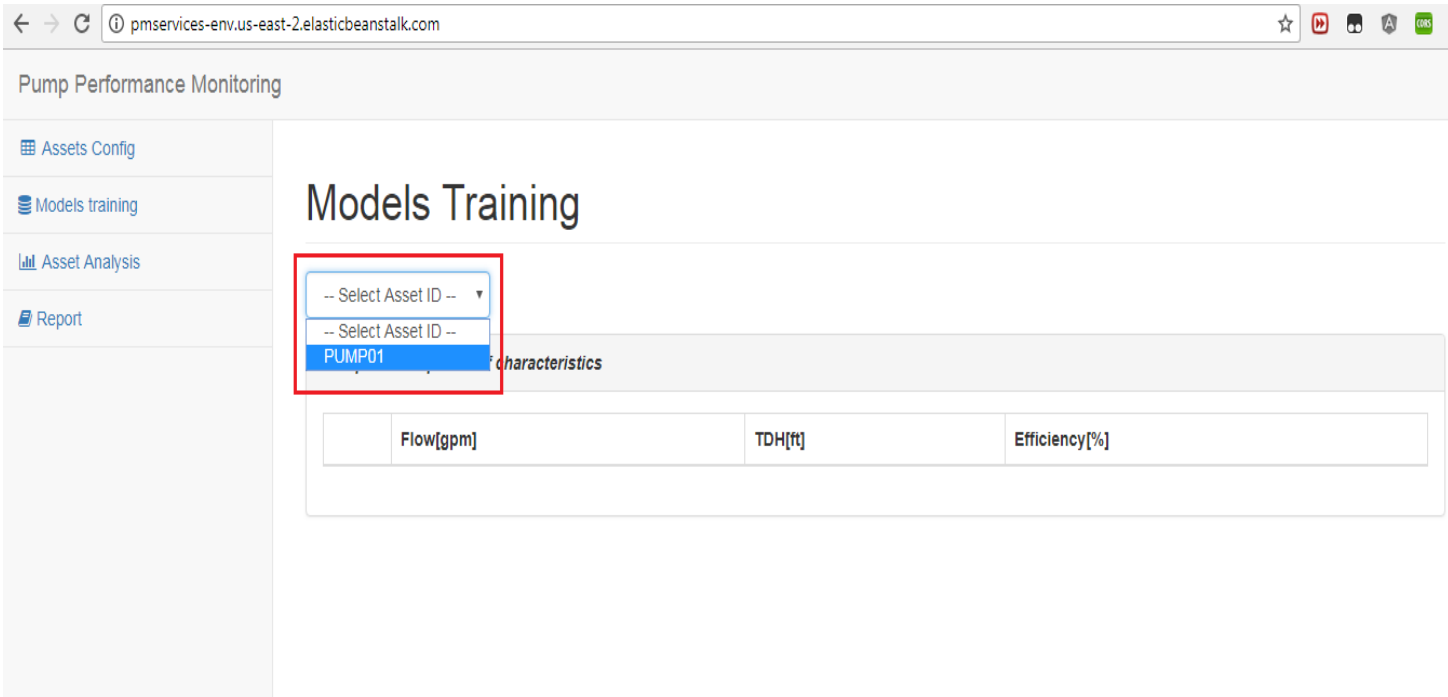
Flow vs. Efficiency 3

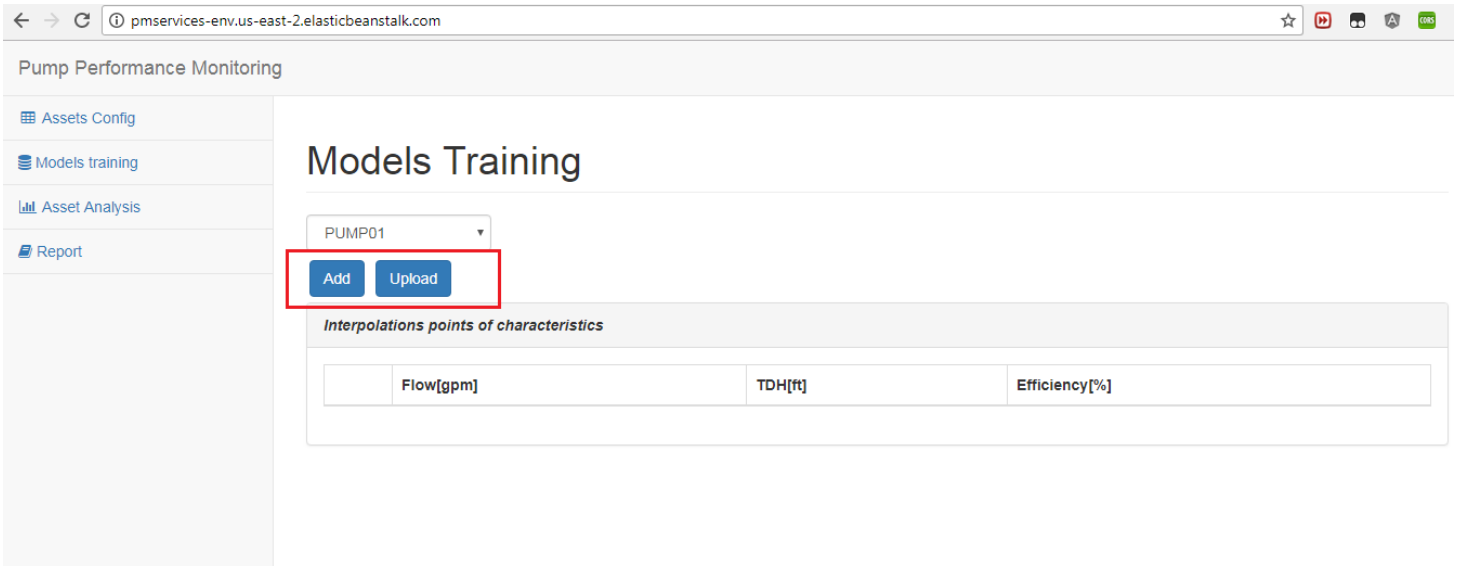


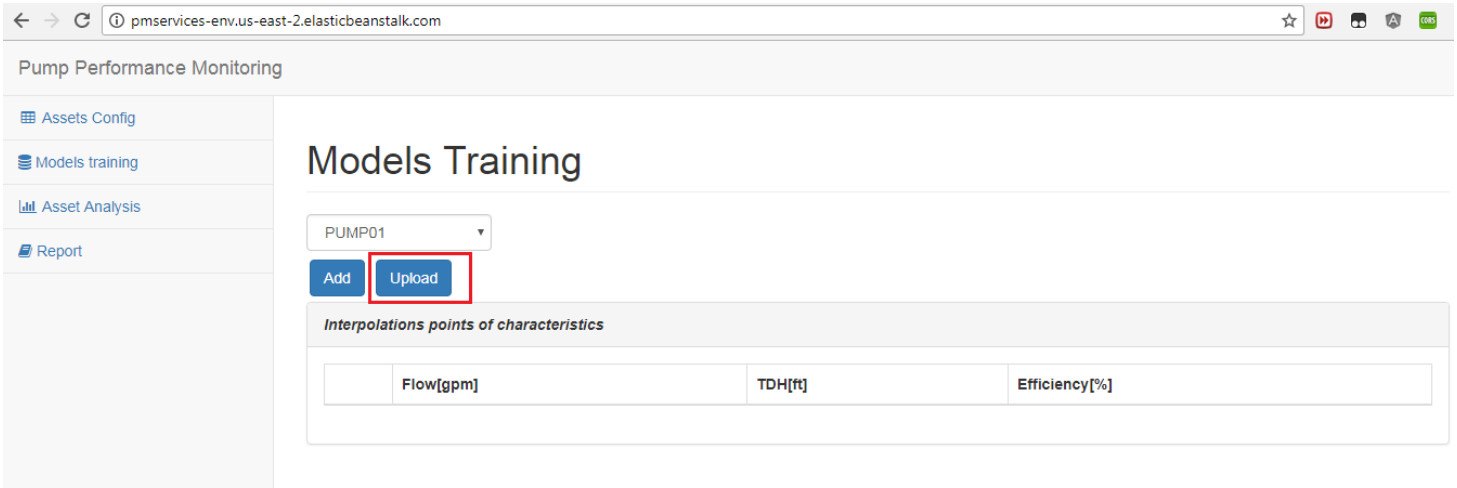
Freq vs. Amp 4

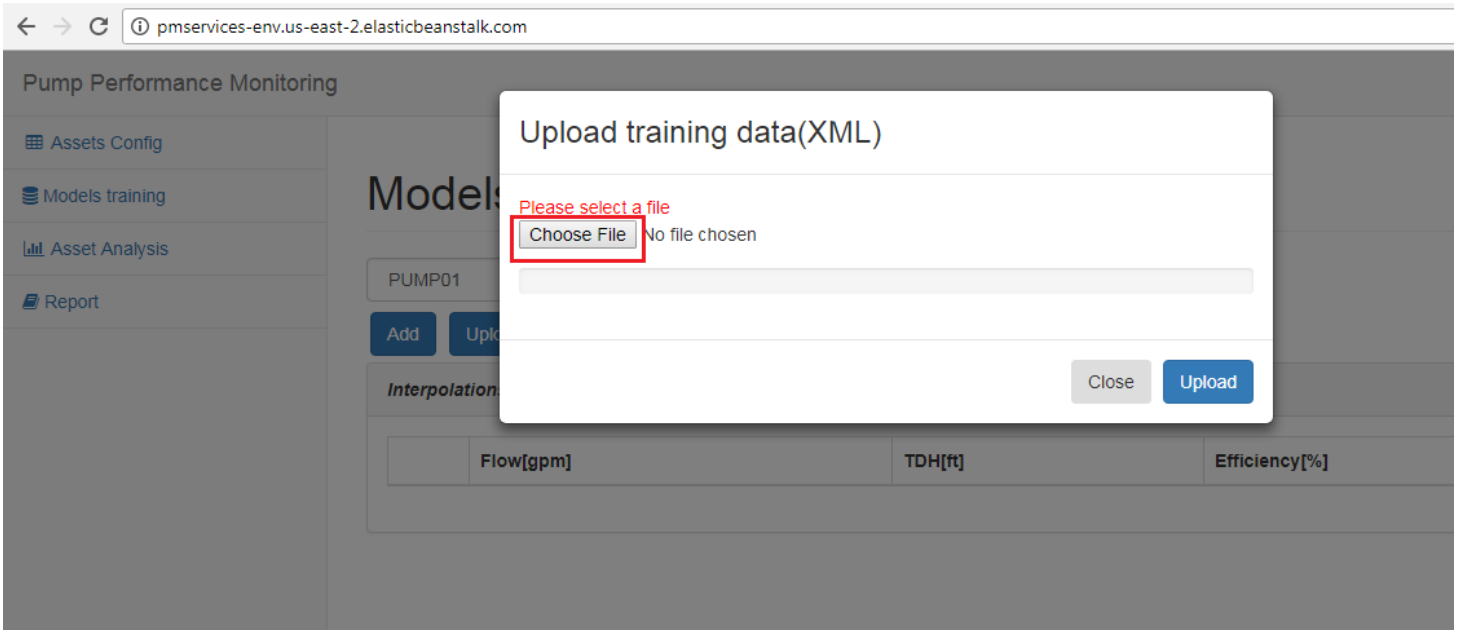


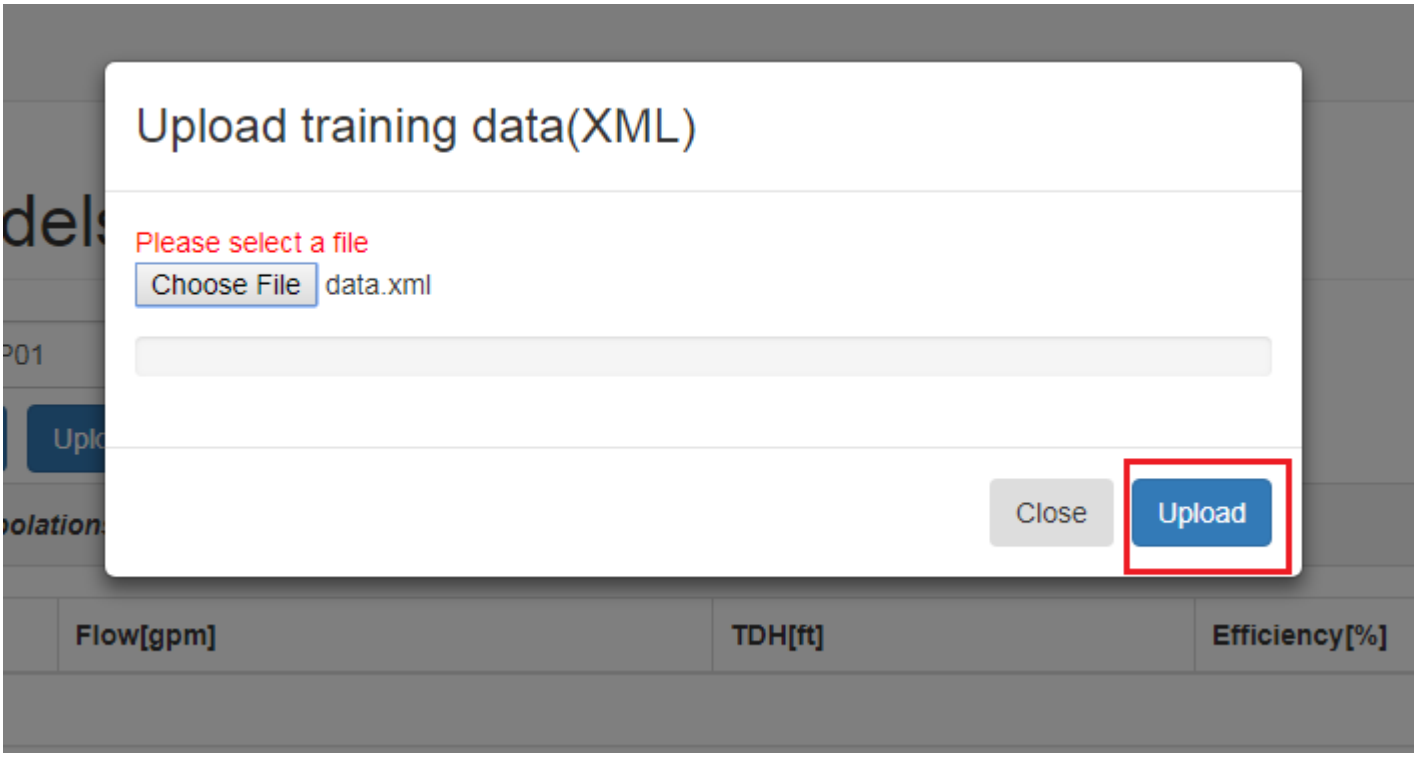

pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Models Training
-- Select Asset ID --
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]

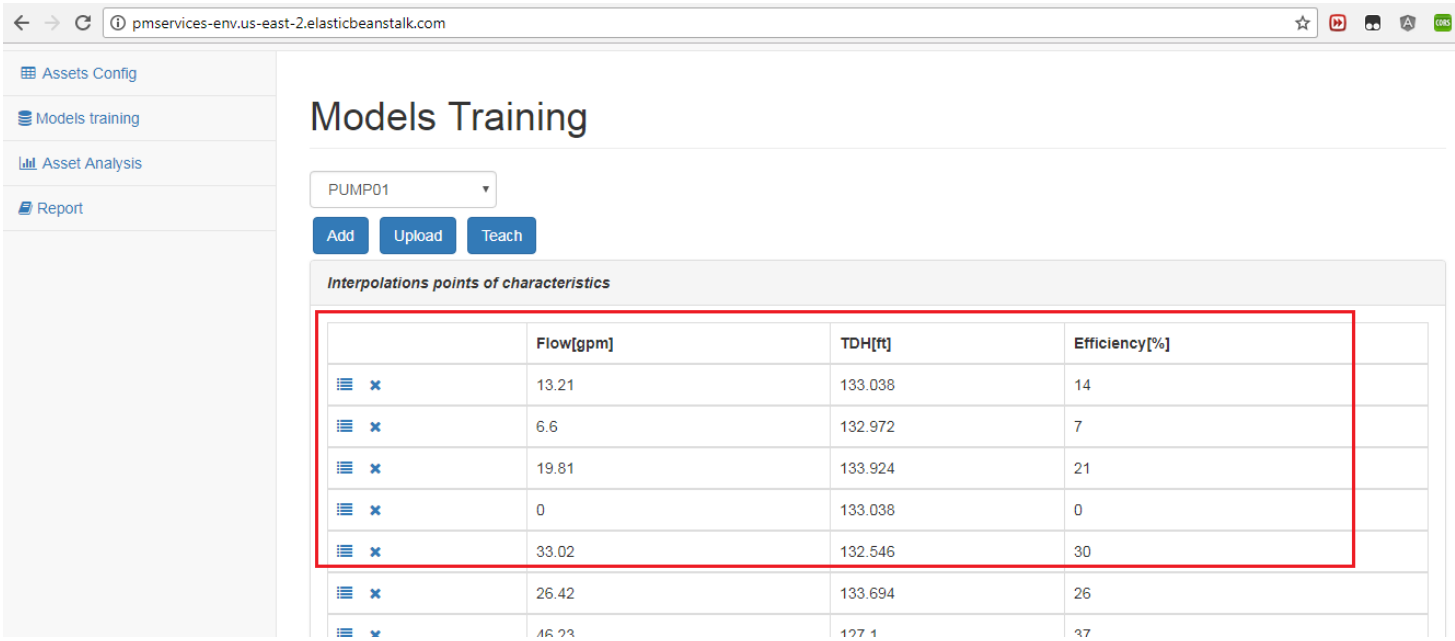

pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Models Training
-- Select Asset ID --
-- Select Asset ID --
PUMP01
characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]

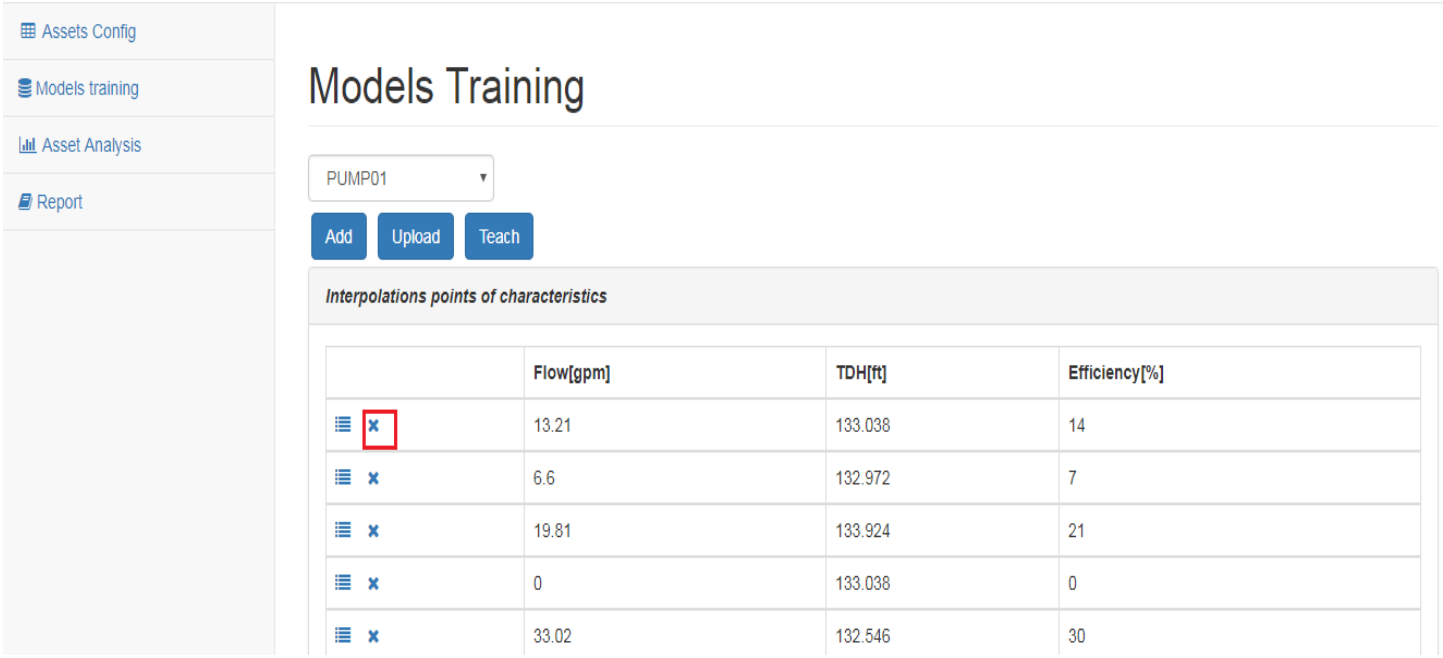

pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]

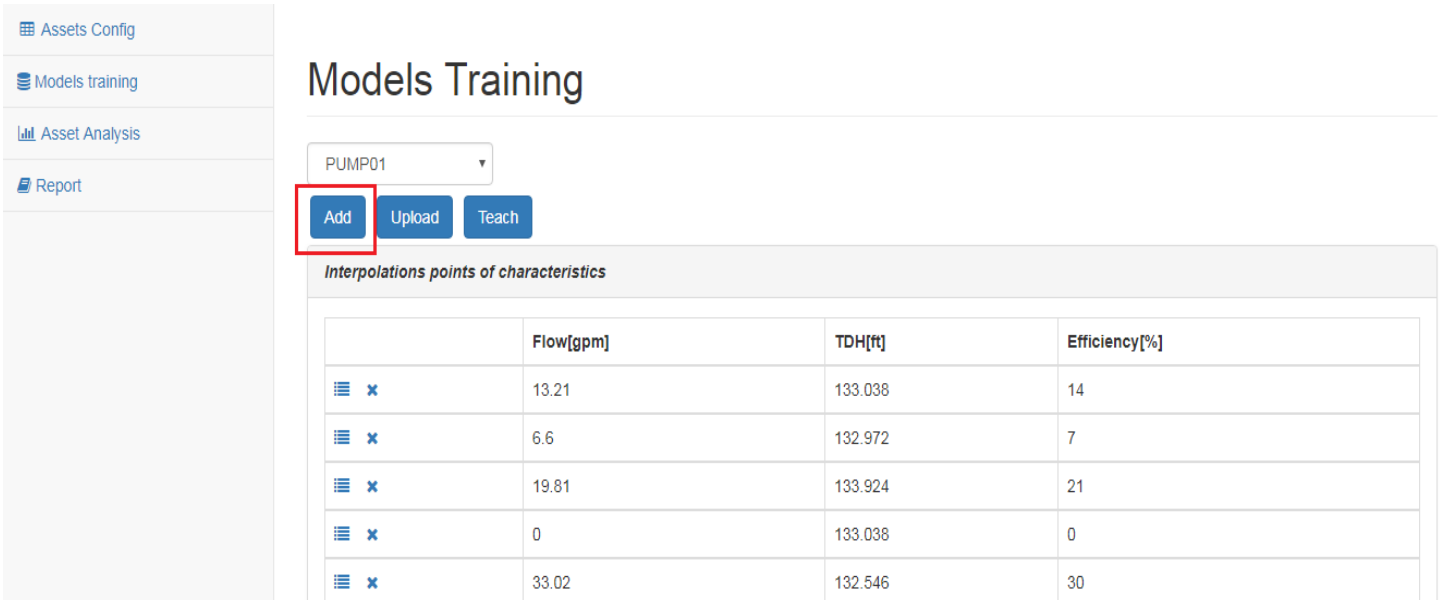

pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]

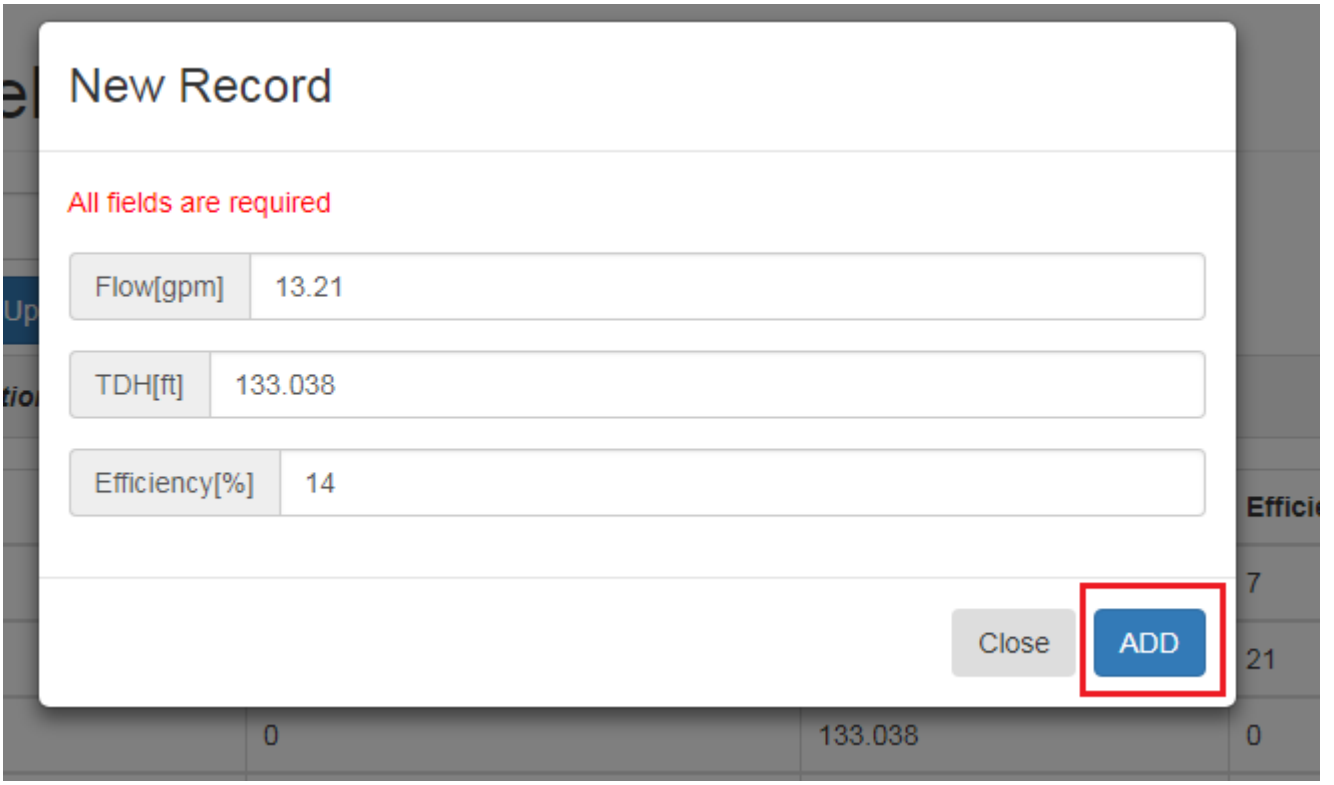

pmservices-env.us-east-2.elasticbeanstalk.com
Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Upload training data(XML)
Please select a file
Choose File
No file chosen
Close
Upload

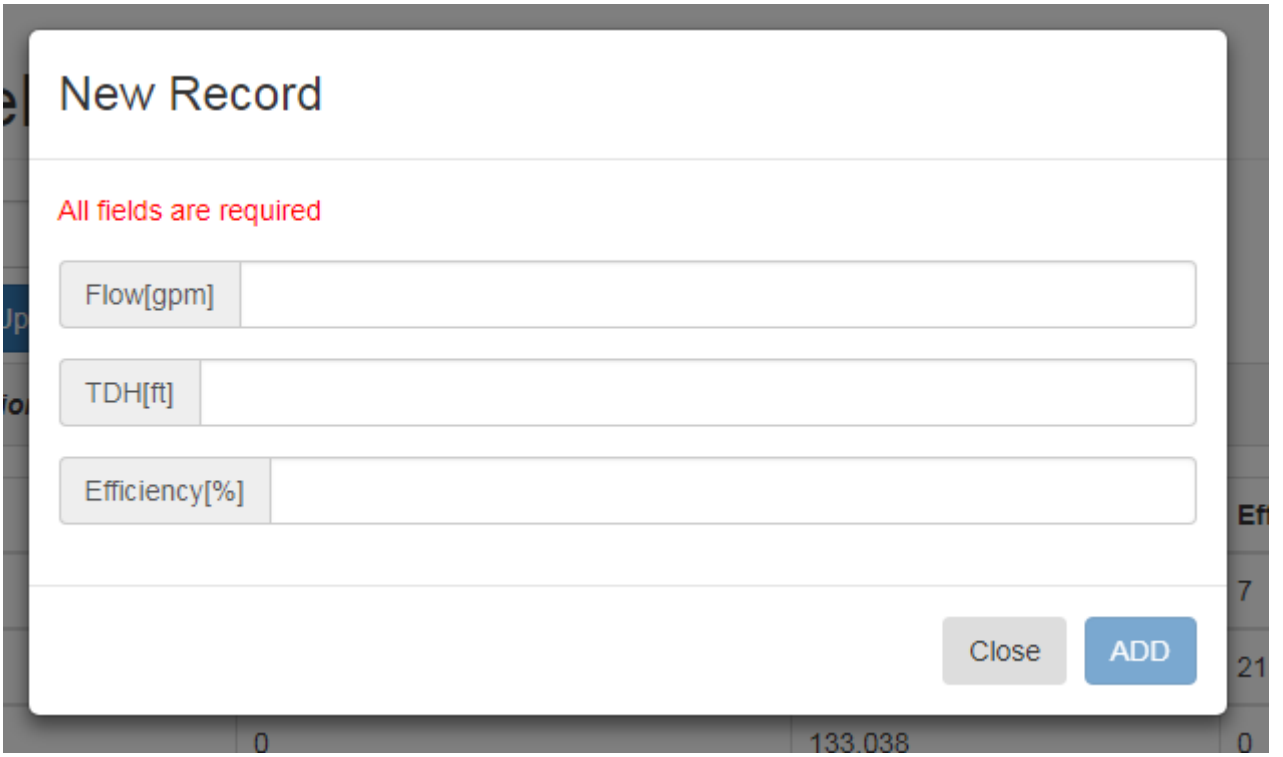

Upload training data(XML)
Please select a file
Choose File
data.xml
Close
Upload
Flow[gpm]
TDH[ft]
Efficiency[%]


pmservices-env.us-east-2.elasticbeanstalk.com
Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Teach
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]
13.21
133.038
14
6.6
132.972
7
19.81
133.924
21
0
133.038
0
33.02
132.546
30
26.42
133.694
26

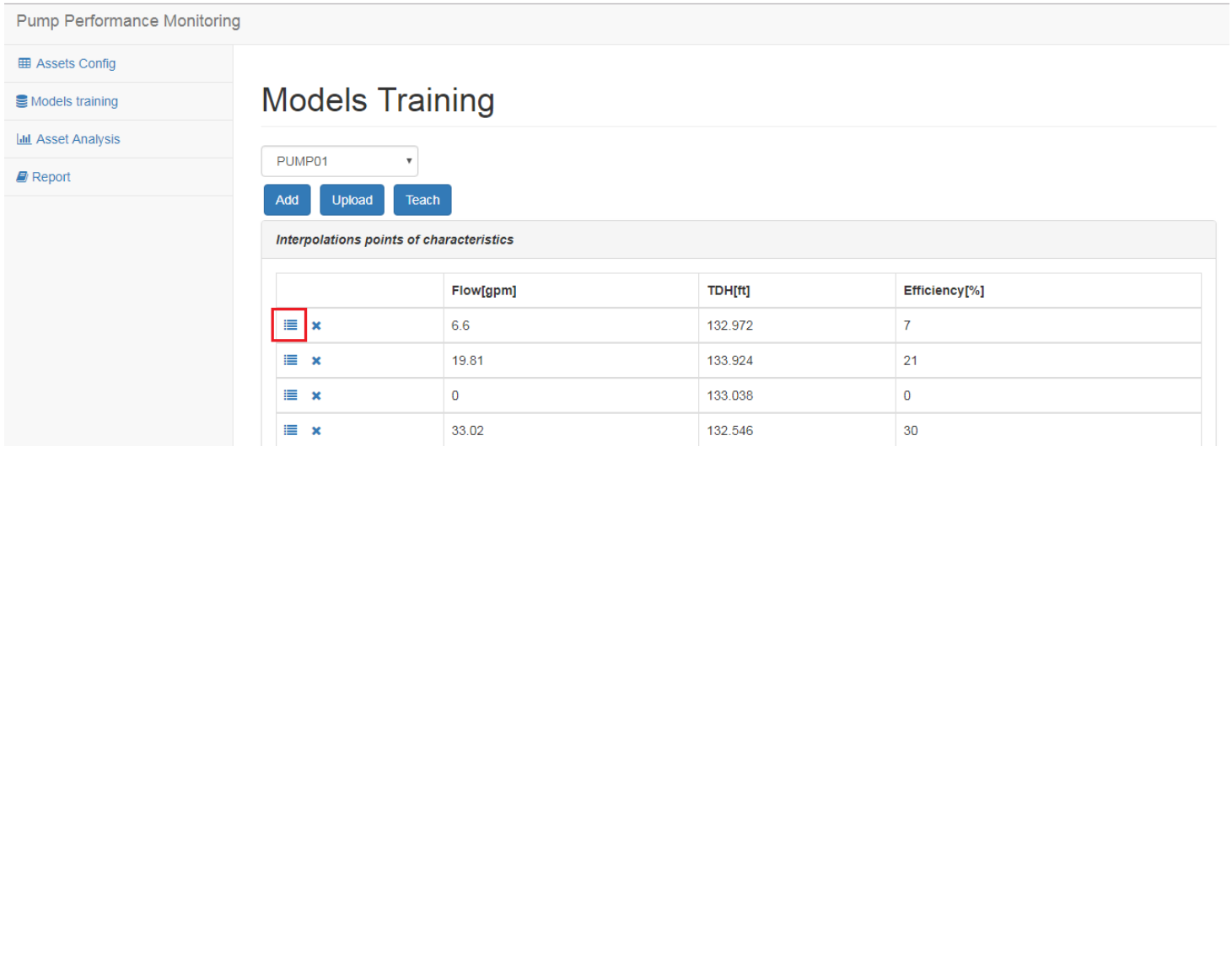

Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Teach
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]
13.21
133.038
14
6.6
132.972
7
19.81
133.924
21
0
133.038
0
33.02
132.546
30

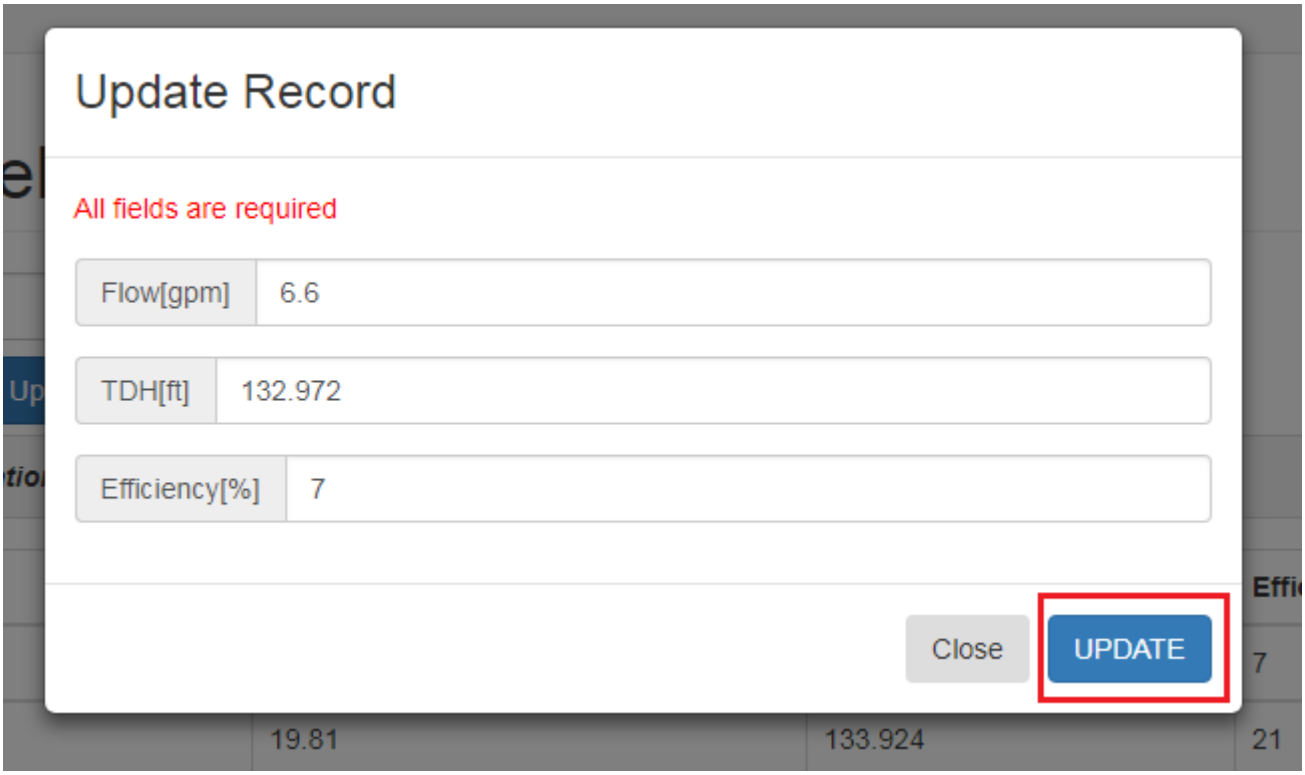

Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Teach
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]
13.21
133.038
14
6.6
132.972
7
19.81
133.924
21
0
133.038
0
33.02
132.546
30

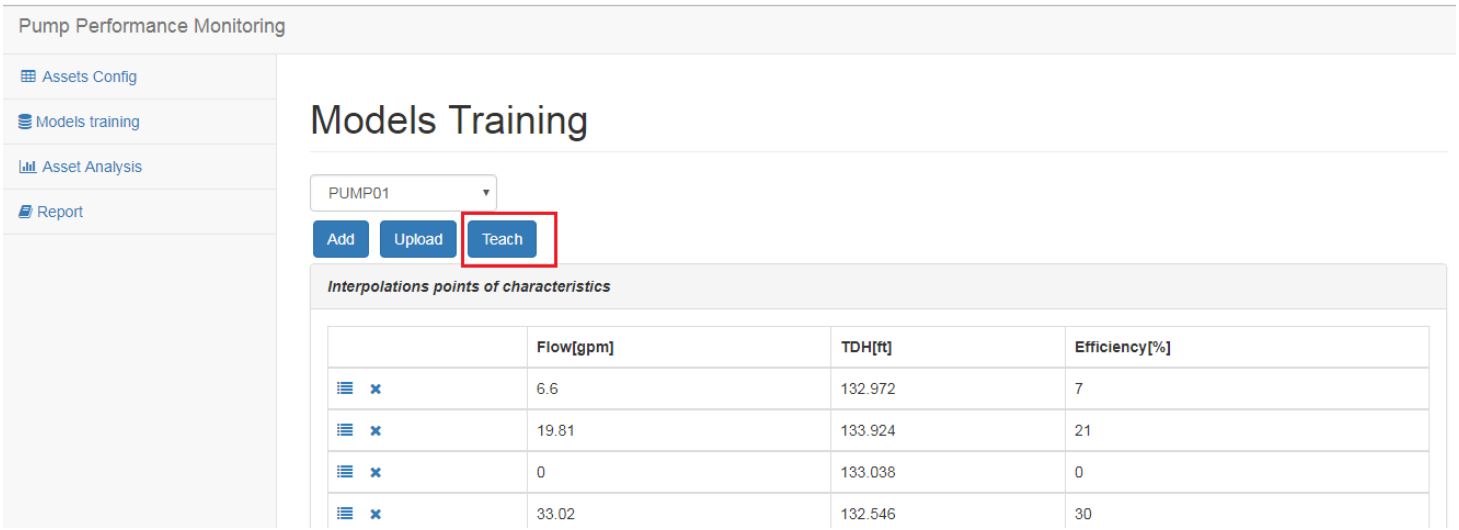

New Record
All fields are required
Flow[gpm]
13.21
TDH[ft]
133.038
Efficiency[%]
14
Close
ADD
0
133.038
0


New Record
All fields are required
Flow[gpm]
TDH[ft]
Efficiency[%]
Close
ADD
0
133.038
0

	6.6	132.972	7
	19.81	133.924	21
	0	133.038	0
	33.02	132.546	30
	26.42	133.694	26
	46.23	127.1	37
	49.63	130.052	34
	59.43	120.604	40
	66.04	116.437	41
	52.83	124.18	38
	72.65	111.647	42
	92.46	96.916	42
	89.85	101.575	42
	79.25	106.365	42
	96.87	164.042	100
	13.21	133.038	14




Update Record
All fields are required
Flow[gpm]
6.6
TDH[ft]
132.972
Efficiency[%]
7
Close
UPDATE
19.81
133.924
21


Pump Performance Monitoring
Assets Config
Models training
Asset Analysis
Report
Models Training
PUMP01
Add
Upload
Teach
Interpolations points of characteristics
Flow[gpm]
TDH[ft]
Efficiency[%]
6.6
132.972
7
19.81
133.924
21
0
133.038
0
33.02
132.546
30

Assets Config
Models training
Asset Analysis
Report

Models Training

PUMP01

Add Upload Teach

Interpolations points of characteristics

	Flow[gpm]	TDH[ft]	Efficiency[%]
	6.6	132.972	7
	19.81	133.924	21
	0	133.038	0
	33.02	132.546	30
	26.42	133.694	26
	46.23	127.1	37

Pump Performance Monitoring

Assets Config
Models training
Asset Analysis
Report

Models Training

PUMP01

Add Upload Teach

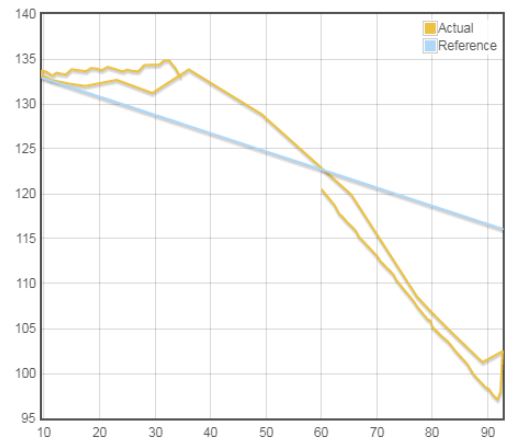
Success! Model trained successfully and notification sent to KPI-Calculation app

Interpolations points of characteristics

	Flow[gpm]	TDH[ft]	Efficiency[%]
	6.6	132.972	7
	19.81	133.924	21

Not secure | pmservices-env.us-east-2.elasticbeanstalk.com

Blockage
Dry Running
Low Pump Efficiency
Deviated TDH
Impeler wearing



- Assets Config
- Models training
- Asset Analysis
- Report

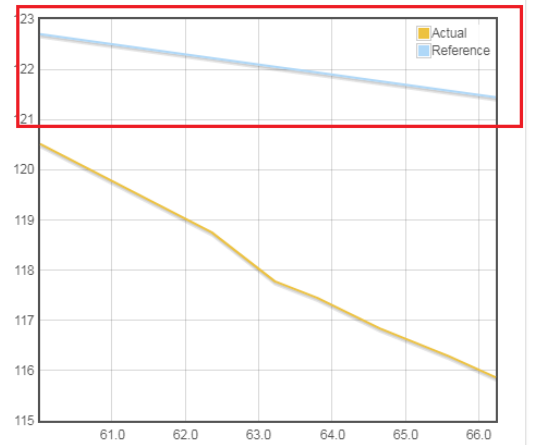
Asset Analysis

PUMP01

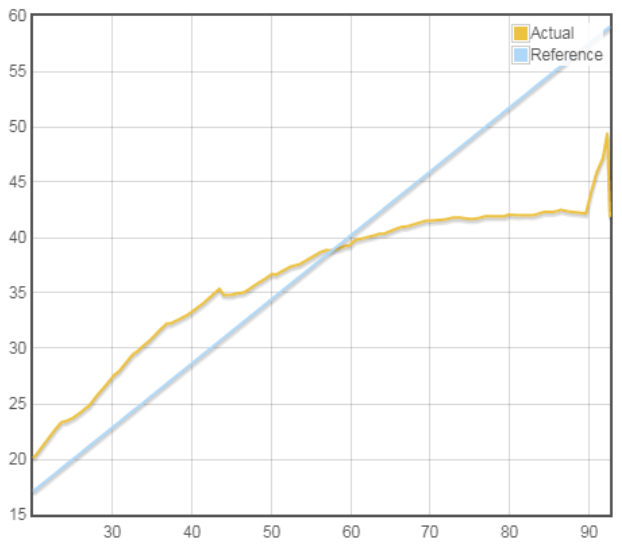
Alarms

- Blockage
- Dry Running
- Low Pump Efficiency
- Deviated TDH
- Impeler wearing

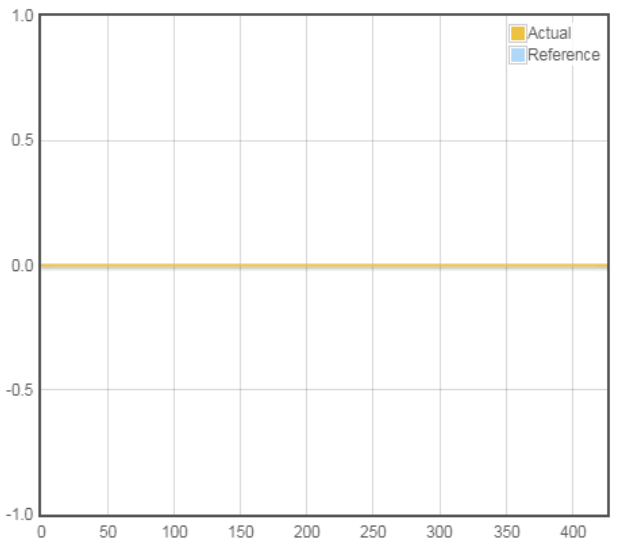
Flow vs. TDH



Flow vs. Efficiency



Freq vs. Amp



pmservices-env.us-east-2.elasticbeanstalk.com

Pump Performance Monitoring

- Assets Config
- Models training
- Asset Analysis
- Report

Centrifugal Pump

Centrifugal pumps are a sub-class of dynamic axisymmetric work-absorbing turbomachinery. Centrifugal pumps are used to transport fluids by the conversion of rotational kinetic energy to the hydrodynamic energy of the fluid flow. The rotational energy typically comes from an engine or electric motor. The fluid enters the pump impeller along or near to the rotating axis and is accelerated by the impeller, flowing radially outward into a diffuser or volute chamber (casing), from where it exits.

Common uses include water, sewage, petroleum and petrochemical pumping; a centrifugal fan is commonly used to implement a vacuum cleaner. The reverse function of the centrifugal pump is a water turbine converting potential energy of water pressure into mechanical rotational energy.

pmservices-env.us-east-2.elasticbeanstalk.com

Pump Performance Monitoring

- Assets Config
- Models training
- Asset Analysis
- Report

Alarms Report

-- Select Asset ID --

-- Select Asset ID --
PUMP01

Pump Performance Monitoring

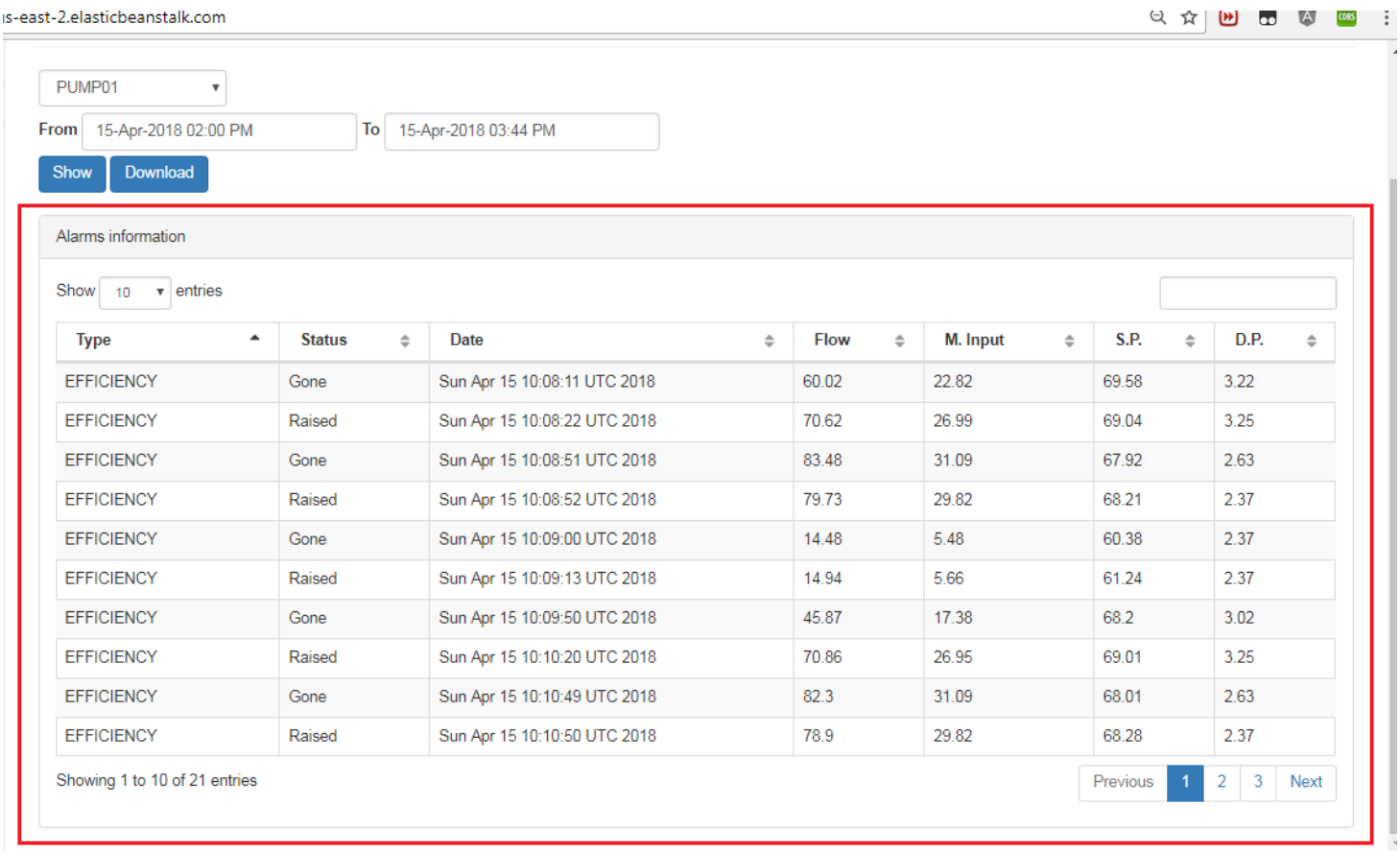
- Assets Config
- Models training
- Asset Analysis
- Report

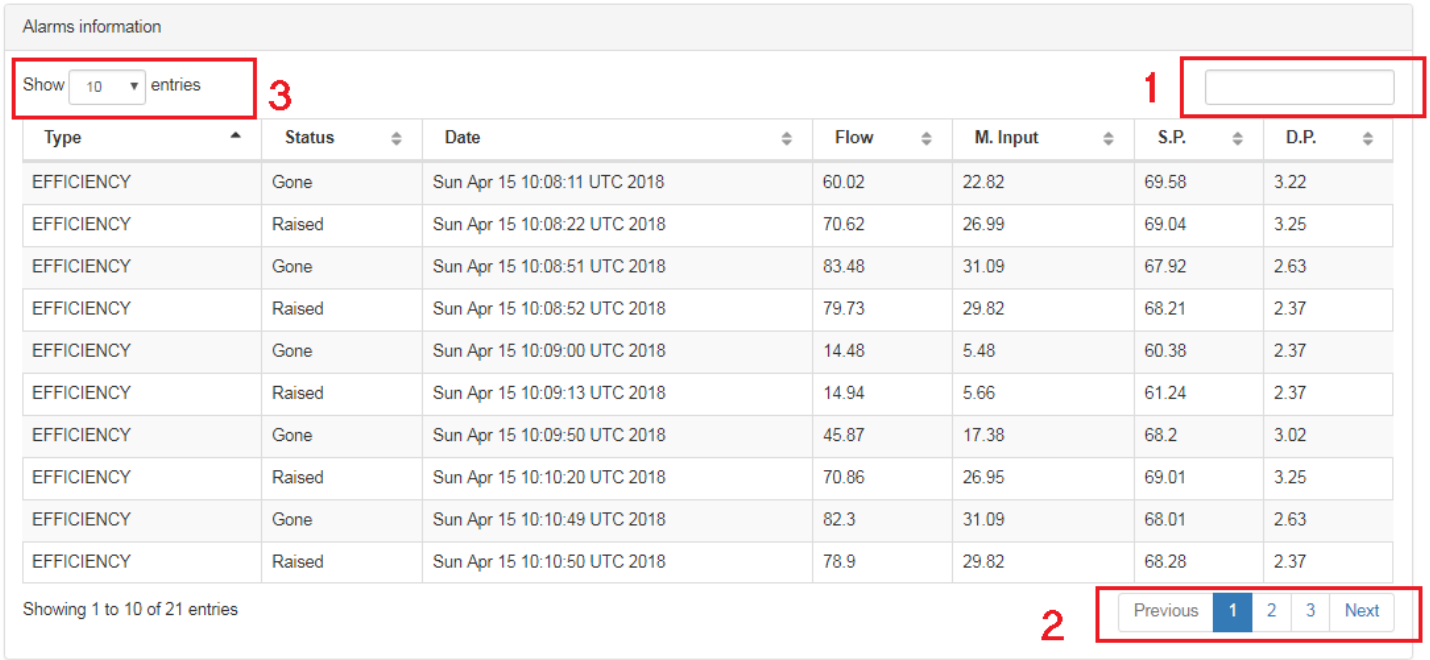
Alarms Report

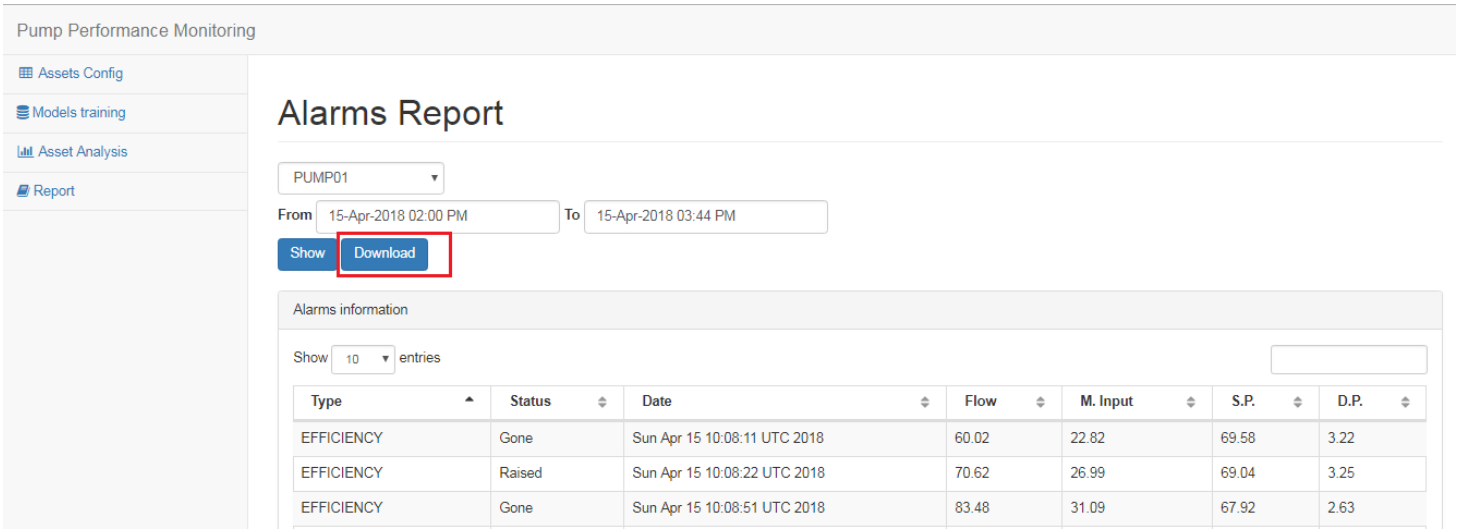
PUMP01

From Required! dd-----yyyy --:-- -- **To** Required! dd-----yyyy --:-- --

Show


is-east-2.elasticbeanstalk.com
PUMP01
From 15-Apr-2018 02:00 PM
To 15-Apr-2018 03:44 PM
Show
Download
Alarms information
Show 10 entries
Type
Status
Date
Flow
M. Input
S.P.
D.P.
EFFICIENCY Gone Sun Apr 15 10:08:11 UTC 2018 60.02 22.82 69.58 3.22
EFFICIENCY Raised Sun Apr 15 10:08:22 UTC 2018 70.62 26.99 69.04 3.25
EFFICIENCY Gone Sun Apr 15 10:08:51 UTC 2018 83.48 31.09 67.92 2.63
EFFICIENCY Raised Sun Apr 15 10:08:52 UTC 2018 79.73 29.82 68.21 2.37
EFFICIENCY Gone Sun Apr 15 10:09:00 UTC 2018 14.48 5.48 60.38 2.37
EFFICIENCY Raised Sun Apr 15 10:09:13 UTC 2018 14.94 5.66 61.24 2.37
EFFICIENCY Gone Sun Apr 15 10:09:50 UTC 2018 45.87 17.38 68.2 3.02
EFFICIENCY Raised Sun Apr 15 10:10:20 UTC 2018 70.86 26.95 69.01 3.25
EFFICIENCY Gone Sun Apr 15 10:10:49 UTC 2018 82.3 31.09 68.01 2.63
EFFICIENCY Raised Sun Apr 15 10:10:50 UTC 2018 78.9 29.82 68.28 2.37
Showing 1 to 10 of 21 entries
Previous 1 2 3 Next


Alarms information
Show 10 entries
3
1
Type
Status
Date
Flow
M. Input
S.P.
D.P.
EFFICIENCY Gone Sun Apr 15 10:08:11 UTC 2018 60.02 22.82 69.58 3.22
EFFICIENCY Raised Sun Apr 15 10:08:22 UTC 2018 70.62 26.99 69.04 3.25
EFFICIENCY Gone Sun Apr 15 10:08:51 UTC 2018 83.48 31.09 67.92 2.63
EFFICIENCY Raised Sun Apr 15 10:08:52 UTC 2018 79.73 29.82 68.21 2.37
EFFICIENCY Gone Sun Apr 15 10:09:00 UTC 2018 14.48 5.48 60.38 2.37
EFFICIENCY Raised Sun Apr 15 10:09:13 UTC 2018 14.94 5.66 61.24 2.37
EFFICIENCY Gone Sun Apr 15 10:09:50 UTC 2018 45.87 17.38 68.2 3.02
EFFICIENCY Raised Sun Apr 15 10:10:20 UTC 2018 70.86 26.95 69.01 3.25
EFFICIENCY Gone Sun Apr 15 10:10:49 UTC 2018 82.3 31.09 68.01 2.63
EFFICIENCY Raised Sun Apr 15 10:10:50 UTC 2018 78.9 29.82 68.28 2.37
Showing 1 to 10 of 21 entries
2
Previous 1 2 3 Next



Alarms

Asset ID : PUMP01 1

2

From 15.04.2018 - 08:30 : 00
To : 15.04.2018 - 10:14 : 00

Type	Status	Date	Flow	S. P.	D. P.	M. P. I.
IMPELLER WEAR	Raised	15.04.2018 - 09:42 : 53	60.02	22.82	69.58	3.22
TDH	Gone	15.04.2018 - 10:08 : 11	60.02	22.82	69.58	3.22
EFFICIENCY	Gone	15.04.2018 - 10:08 : 11	60.02	22.82	69.58	3.22
EFFICIENCY	Raised	15.04.2018 - 10:08 : 22	70.62	26.99	69.04	3.25
TDH	Raised	15.04.2018 - 10:08 : 31	78.38	29.72	68.17	3.26
EFFICIENCY	Gone	15.04.2018 - 10:08 : 51	83.48	31.09	67.92	2.63
TDH	Gone	15.04.2018 - 10:08 : 52	79.73	29.82	68.21	2.37
EFFICIENCY	Raised	15.04.2018 - 10:08 : 52	79.73	29.82	68.21	2.37
EFFICIENCY	Gone	15.04.2018 - 10:09 : 00	14.48	5.48	60.38	2.37
EFFICIENCY	Raised	15.04.2018 - 10:09 : 13	14.94	5.66	61.24	2.37
EFFICIENCY	Gone	15.04.2018 - 10:09 : 50	45.87	17.38	68.2	3.02
EFFICIENCY	Raised	15.04.2018 - 10:10 : 20	70.86	26.95	69.01	3.25
TDH	Raised	15.04.2018 - 10:10 : 28	77.86	29.52	68.24	3.26
EFFICIENCY	Gone	15.04.2018 - 10:10 : 49	82.3	31.09	68.01	2.63
EFFICIENCY	Raised	15.04.2018 - 10:10 : 50	78.9	29.82	68.28	2.37
TDH	Gone	15.04.2018 - 10:10 : 51	76.63	28.95	69.18	2.37
EFFICIENCY	Gone	15.04.2018 - 10:10 : 59	12.83	4.76	59.88	2.37
EFFICIENCY	Raised	15.04.2018 - 10:11 : 12	15.64	5.92	61.46	2.37
TDH	Raised	15.04.2018 - 10:11 : 33	32.92	12.39	71.56	2.78
TDH	Gone	15.04.2018 - 10:11 : 34	33.44	16.43	71.43	2.78