



ENGINEERING TOMORROW

Danfoss Industries

Performance Data

TDMS file	Mean_Main_Flow_GPM	Mean_RPM	Mean_Outlet_Pressure_Psi	Mean_Displacement	Mean_Inlet_Temp_F
P16_HY5_Eff_104F_50%_1000rpm_1000psi.tdms	3.262712299373351	1003.023392387586	1007.905612558507	12.31347950166584	104.1927826985378
P16_HY5_Eff_104F_50%_1000rpm_2000psi.tdms	3.026691395109252	1003.454707829881	2008.555458489015	11.41783946478718	104.1339454832025
P16_HY5_Eff_104F_50%_1000rpm_3000psi.tdms	2.714778202658085	1003.172792817291	3000.434351669997	10.24405522855349	104.0339781008315
P16_HY5_Eff_104F_50%_1000rpm_4060psi.tdms	2.451710371783776	1004.213304225665	4055.769637269392	9.241792996391164	103.9178301596496
P16_HY5_Eff_104F_50%_1000rpm_4351psi.tdms	2.378296943963752	1004.34172533352	4359.11555298399	8.963917538375318	104.3090537577799
P16_HY5_Eff_104F_50%_1000rpm_4568psi.tdms	2.378662145502505	1003.039406906472	4563.788627083694	8.976937719956766	104.3610695271728
P16_HY5_Eff_104F_50%_1000rpm_500psi.tdms	3.431899648169862	1003.643629722713	500.7802443020078	12.94398786623117	104.404074934352
P16_HY5_Eff_104F_50%_1000rpm_5076psi.tdms	2.234152117257334	1003.811337675882	5076.798636040425	8.42507934168325	104.5048328977065
P16_HY5_Eff_104F_50%_1500rpm_1000psi.tdms	5.173556795828634	1505.503886731872	1007.086544600892	13.0082929852273	106.545943126428
P16_HY5_Eff_104F_50%_1500rpm_2000psi.tdms	4.733159474528107	1505.728222472155	2012.091283696821	11.89919893500018	106.0836798470563
P16_HY5_Eff_104F_50%_1500rpm_3000psi.tdms	4.500592244141135	1506.72095108953	3006.356472009618	11.30706876112873	105.6643157464998
P16_HY5_Eff_104F_50%_1500rpm_4060psi.tdms	4.143104078963232	1505.705291957295	4052.16719549454	10.41595250401148	104.9049148394734

TDMS file	Mean_Main_Flow_GPM	Mean_RPM	Mean_Outlet_Pressure_Psi	Mean_Displacement	Mean_Inlet_Temp_F
P16_HY5_Eff_104F_50%_1500rpm_4351psi.tdms	4.091019967656887	1506.28669777192	4356.336560135755	10.28103849041058	104.7207929316366
P16_HY5_Eff_104F_50%_1500rpm_4568psi.tdms	4.06486371409352	1506.162863389361	4558.146991905473	10.21614656399553	104.6111551697711
P16_HY5_Eff_104F_50%_1500rpm_500psi.tdms	5.23756974026616	1506.073721086637	497.3476731980737	13.16426827689921	104.7734594582711
P16_HY5_Eff_104F_50%_1500rpm_5076psi.tdms	3.911034196934406	1506.557245356925	5072.441404270193	9.826955340926887	104.6504924271507
P16_HY5_Eff_104F_50%_1800rpm_1000psi.tdms	6.204887947497903	1803.134729539781	1017.877230235721	13.02623480656699	105.8239587899475
P16_HY5_Eff_104F_50%_1800rpm_2000psi.tdms	5.852308102159454	1803.952729098247	2004.647447002384	12.28047387974071	105.5746171532459
P16_HY5_Eff_104F_50%_1800rpm_3000psi.tdms	5.517596686888721	1803.932241987875	3001.813502236714	11.57824593609222	105.3266286114718
P16_HY5_Eff_104F_50%_1800rpm_4060psi.tdms	5.208367145291194	1803.95608921187	4057.338915640417	10.92920938614079	105.1943432984485
P16_HY5_Eff_104F_50%_1800rpm_4351psi.tdms	5.141433864640772	1804.505866576236	4355.991721447471	10.78546646515704	105.2090546517244
P16_HY5_Eff_104F_50%_1800rpm_4568psi.tdms	5.120091322375579	1804.366170573722	4561.26808699268	10.74153395187552	105.174385632321
P16_HY5_Eff_104F_50%_1800rpm_500psi.tdms	6.324542676570419	1803.675606527108	507.5867574497472	13.27345053210075	105.9202734695628
P16_HY5_Eff_104F_50%_1800rpm_5076psi.tdms	4.998632906397091	1804.271914526955	5074.118907443378	10.48727007357503	105.7675139761125
P16_HY5_Eff_104F_50%_2000rpm_1000psi.tdms	6.892349304869103	2002.042329940189	997.5544380378025	13.0318825411221	106.434340006646

TDMS file	Mean_Main_Flow_GPM	Mean_RPM	Mean_Outlet_Pressure_Psi	Mean_Displacement	Mean_Inlet_Temp_F
P16_HY5_Eff_104F_50%_2000rpm_2000psi.tdms	6.505782484602942	2001.8559395193	2006.480961479999	12.30211672204193	105.9517150793492
P16_HY5_Eff_104F_50%_2000rpm_3000psi.tdms	6.180587851311293	2001.660384136322	3003.04292211914	11.68833249840064	105.9885971566777
P16_HY5_Eff_104F_50%_2000rpm_4060psi.tdms	5.861787712299636	2001.643695484015	4058.730730222125	11.08553017937842	106.3958675822227
P16_HY5_Eff_104F_50%_2000rpm_4351psi.tdms	5.803915275209728	2001.954689991732	4355.558590123644	10.97437637800535	105.9963997926751
P16_HY5_Eff_104F_50%_2000rpm_4568psi.tdms	5.757858807037685	2001.852361696267	4567.332963089096	10.88784872966033	106.4688537632433
P16_HY5_Eff_104F_50%_2000rpm_500psi.tdms	7.057060793136853	2001.084348995924	499.1724597641934	13.34970335148993	105.4233514549785
P16_HY5_Eff_104F_50%_2000rpm_5076psi.tdms	5.605145873378397	2001.454890298887	5077.089424648831	10.60118156970117	106.4525953285463
P16_HY5_Eff_104F_50%_2500rpm_1000psi.tdms	8.786155436000994	2501.591076291487	1002.617347089794	13.29522536539661	105.5088759312852
P16_HY5_Eff_104F_50%_2500rpm_2000psi.tdms	8.286465629005047	2499.975979666266	2005.334632501461	12.5471940663379	104.8752903091804
P16_HY5_Eff_104F_50%_2500rpm_3000psi.tdms	7.914522313127142	2499.957263270914	3013.598539824634	11.98409608373499	104.1558962167262
P16_HY5_Eff_104F_50%_2500rpm_4060psi.tdms	7.564893752318451	2504.092032048165	4058.54339206416	11.43577756851622	103.5272469527202
P16_HY5_Eff_104F_50%_2500rpm_4351psi.tdms	7.4657861192189	2503.640867953068	4348.754243260672	11.28799017727961	103.0970289653906
P16_HY5_Eff_104F_50%_2500rpm_4568psi.tdms	7.401712152621529	2503.528914624776	4573.130737878235	11.19161382159717	102.8569763747991

TDMS file	Mean_Main_Flow_GPM	Mean_RPM	Mean_Outlet_Pressure_Psi	Mean_Displacement	Mean_Inlet_Temp_F
P16_HY5_Eff_104F_50%_2500rpm_500psi.tdms	8.860382199180876	2499.492157661295	500.3264407398873	13.41880154563249	106.2372523069471
P16_HY5_Eff_104F_50%_2500rpm_5076psi.tdms	7.320957456983762	2503.203637705115	5081.568363040309	11.07095045006353	102.7329957082358
P16_HY5_Eff_104F_50%_3000rpm_1000psi.tdms	10.49692699053894	3000.547579021336	1003.768623253055	13.2426470382373	104.0650657847378
P16_HY5_Eff_104F_50%_3000rpm_2000psi.tdms	10.00080606775937	3000.396992246198	2006.153860378867	12.61738784227992	104.257684609976
P16_HY5_Eff_104F_50%_3000rpm_3000psi.tdms	9.736537419839872	3000.06115081975	3005.641120625662	12.28535172063717	104.3618439352476
P16_HY5_Eff_104F_50%_3000rpm_4060psi.tdms	9.456726927622142	3002.08244440747	4060.410381547806	11.92426237919396	104.5945621881656
P16_HY5_Eff_104F_50%_3000rpm_4351psi.tdms	9.38276571307833	3003.448906362624	4351.722352063871	11.82561561859844	104.8796866013642
P16_HY5_Eff_104F_50%_3000rpm_4568psi.tdms	9.322178656011703	3003.263159425009	4563.237473103197	11.7499810536102	105.1618027370207
P16_HY5_Eff_104F_50%_3000rpm_500psi.tdms	10.69489187059144	3001.034975395549	499.3647126381346	13.49020203188374	103.746150989599
P16_HY5_Eff_104F_50%_3000rpm_5076psi.tdms	9.111948728798323	3001.062665632757	5072.049461461063	11.49342004282425	105.5885967986485
P16_HY5_Eff_104F_50%_3500rpm_1000psi.tdms	12.25306591600567	3499.533785693772	1002.886568972405	13.25402290763231	106.7754558103411
P16_HY5_Eff_104F_50%_3500rpm_2000psi.tdms	11.82763557951603	3498.918251529121	2005.346783911534	12.79608942322431	107.334660651521
P16_HY5_Eff_104F_50%_3500rpm_3000psi.tdms	11.45314235099354	3495.65545949232	3003.787629240135	12.40249784542595	105.5706140269773

TDMS file	Mean_Main_Flow_GPM	Mean_RPM	Mean_Outlet_Pressure_Psi	Mean_Displacement	Mean_Inlet_Temp_F
P16_HY5_Eff_104F_50%_3500rpm_4060psi.tdms	11.0650696651429	3492.54833383116	4062.274742342199	11.99292542547659	104.1229449383884
P16_HY5_Eff_104F_50%_3500rpm_4351psi.tdms	11.0652836721525	3492.995972727808	4359.09925825967	11.99161738561302	103.8682848784252
P16_HY5_Eff_104F_50%_3500rpm_4568psi.tdms	10.98999999203425	3488.033952304416	4565.696146054839	11.92697089845499	104.1278841520839
P16_HY5_Eff_104F_50%_3500rpm_500psi.tdms	12.51791077689767	3499.15499692395	498.8725469105324	13.54196842477637	106.3356801351177
P16_HY5_Eff_104F_50%_3500rpm_5076psi.tdms	10.73120890223722	3489.537711375643	5076.43303226998	11.64109735004154	103.9037231886959
P16_HY5_Eff_104F_50%_500rpm_1000psi.tdms	1.509022234643989	502.7124820090245	1008.862386290476	11.36293611741061	105.3593321736379
P16_HY5_Eff_104F_50%_500rpm_2000psi.tdms	1.274324124209341	502.1803429334876	2004.136347432006	9.605805442176036	104.8724047754883
P16_HY5_Eff_104F_50%_500rpm_3000psi.tdms	1.036553365545299	502.2713119126819	3004.868738193677	7.812051031036527	104.5189745575139
P16_HY5_Eff_104F_50%_500rpm_4060psi.tdms	0.7729611545523868	502.5891494825505	4066.67871325163	5.821790289198109	104.5594497118157
P16_HY5_Eff_104F_50%_500rpm_500psi.tdms	1.616614394832649	502.1774099606442	502.3250817843149	12.18606328068804	104.444002740996

Statistics

Column	Min	Max	Average	Median	IQR
Mean_Main_Flow_GPM	0.7729611545523868	12.51791077689767	6.421026256579622	5.861787712299636	5.020928761141436
Mean_RPM	502.1774099606442	3499.533785693772	2049.483149632254	2001.454890298887	1494.3329283475948
Mean_Outlet_Pressure_Psi	497.3476731980737	5081.568363040309	2993.2494583609623	3006.356472009618	3341.222028023949
Mean_Displacement	5.821790289198109	13.54196842477637	11.489593789233949	11.68833249840064	1.7617276011808602
Mean_Inlet_Temp_F	102.7329957082358	107.334660651521	104.98942926235638	104.8752903091804	1.5098293661365005

Outliers

TDMS file	Mean_Displacement	Outlier Type
P16_HY5_Eff_104F_50%_500rpm_3000psi.tdms	7.812051031036527	Lower
P16_HY5_Eff_104F_50%_500rpm_4060psi.tdms	5.821790289198109	Lower

VE Pivot

Outlet Pressure	2049
2993.0	84.84434041518372

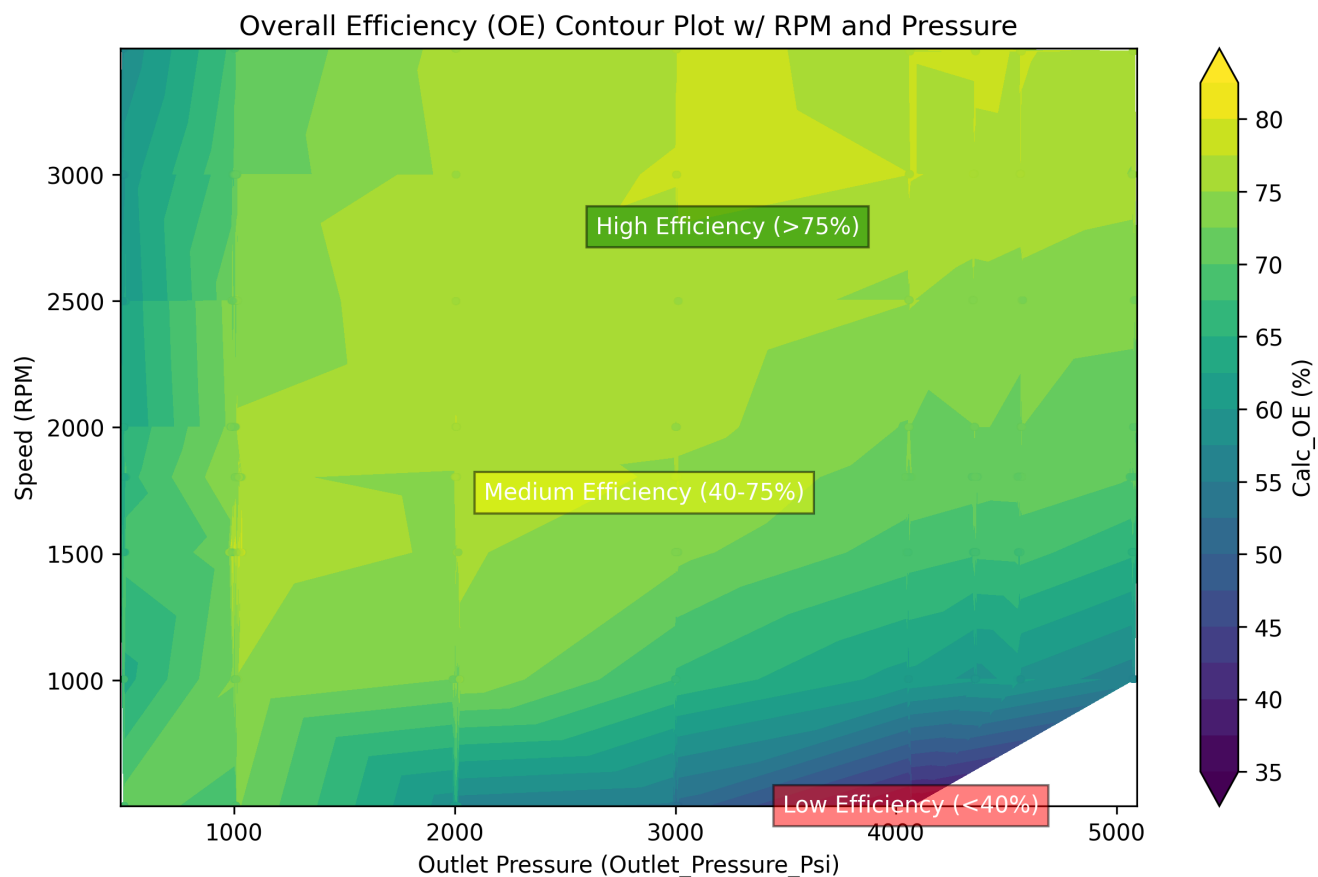
ME Pivot

Outlet Pressure	2049
2993.0	83.59525714604544

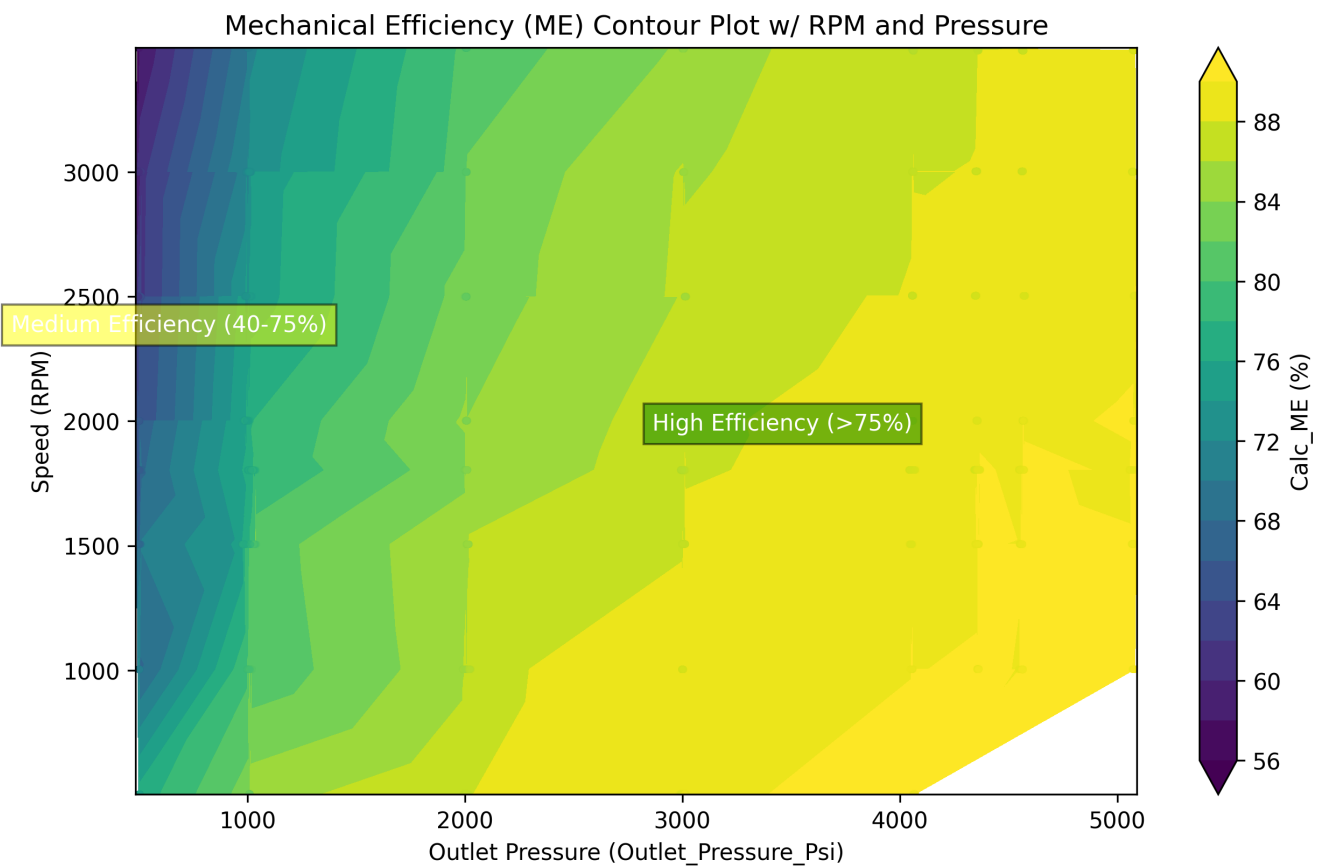
OE Pivot

Outlet Pressure	2049
2993.0	70.24895657185037

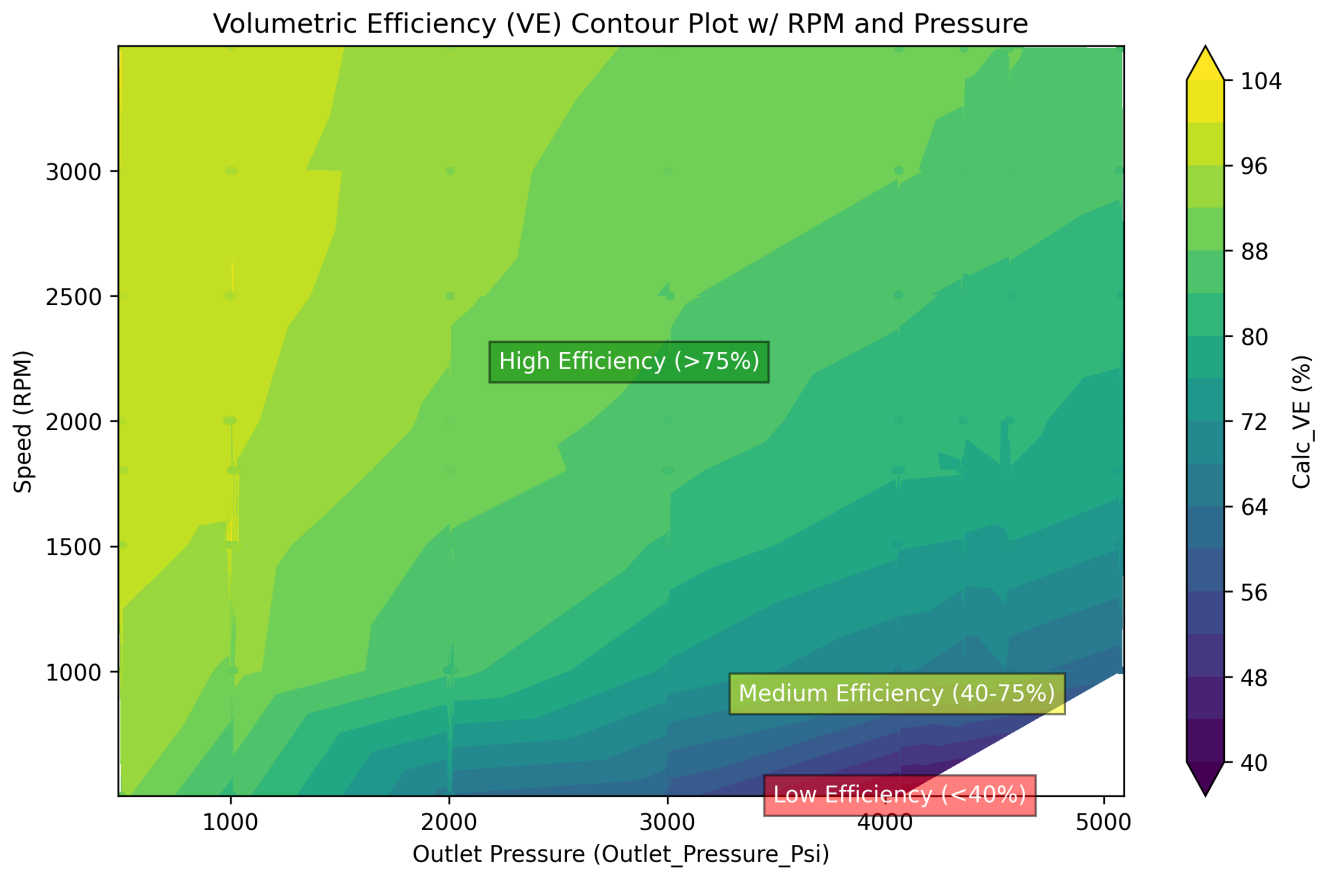
oe_contour_plot



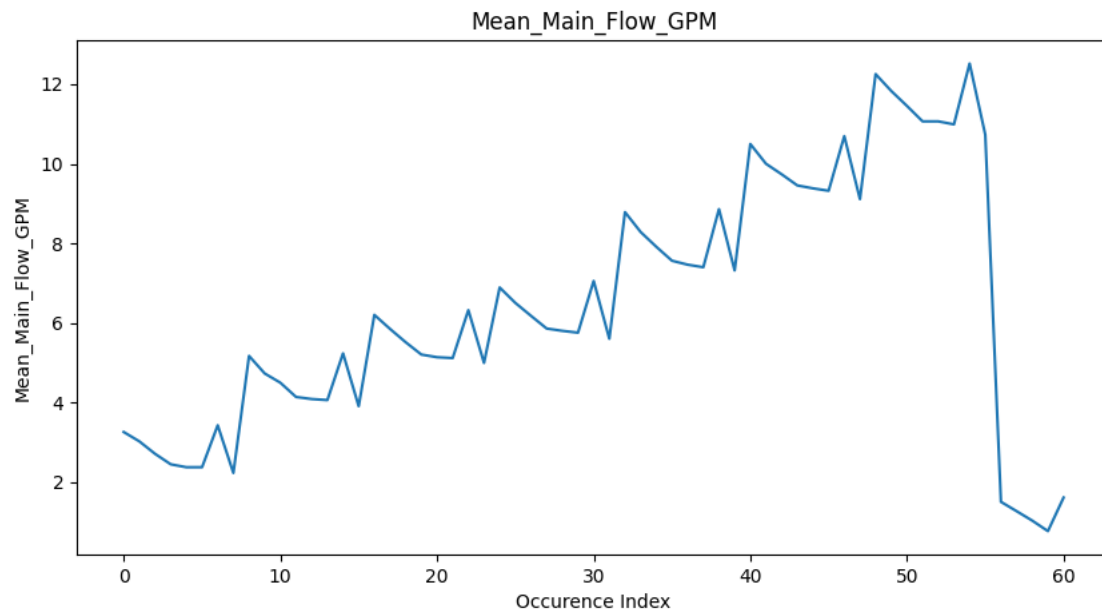
me_contour_plot



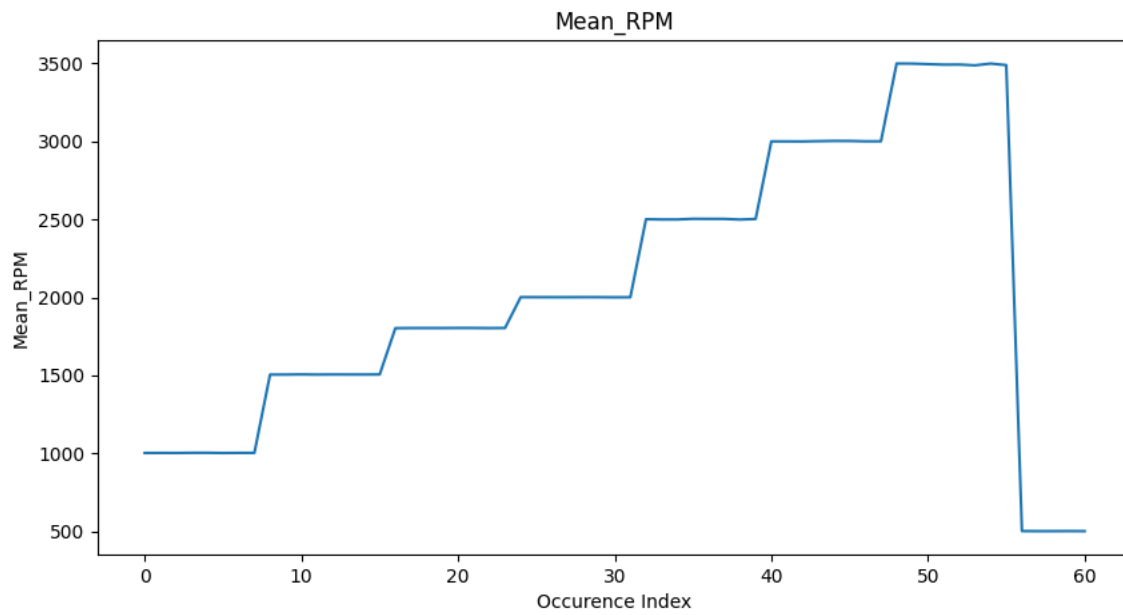
ve_contour_plot



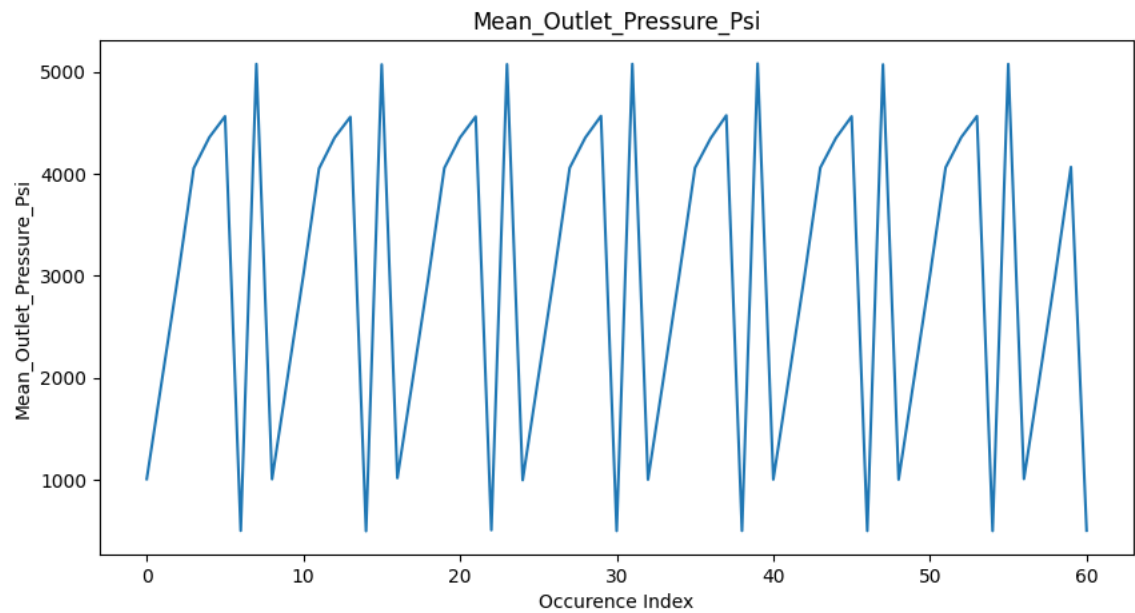
Mean_Main_Flow_GPM Plot



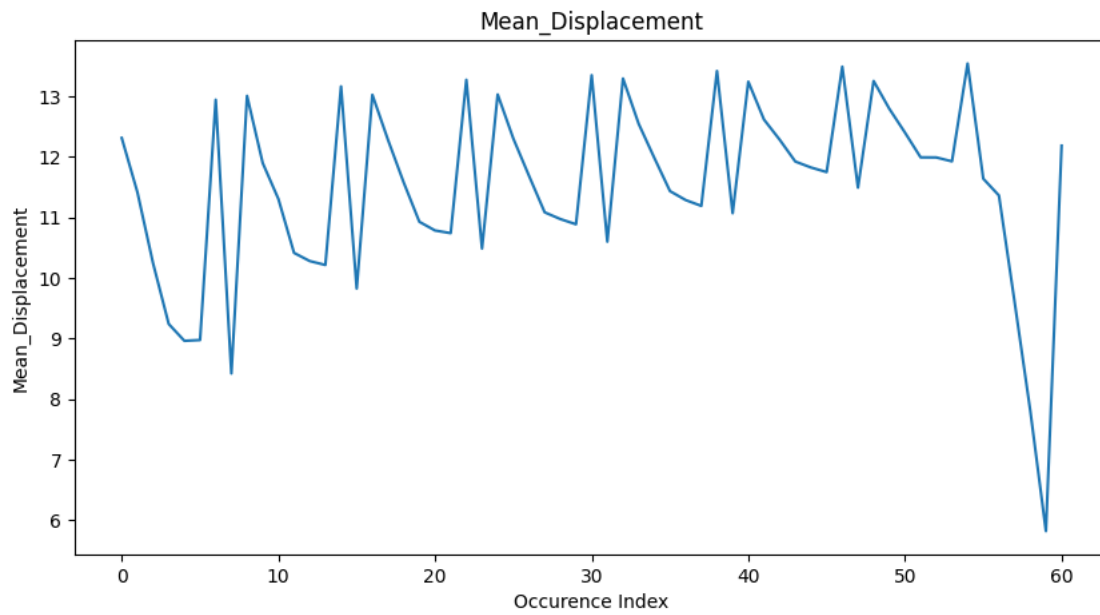
Mean_RPM Plot



Mean_Outlet_Pressure_Psi Plot



Mean_Displacement Plot



Mean_Inlet_Temp_F Plot

