Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

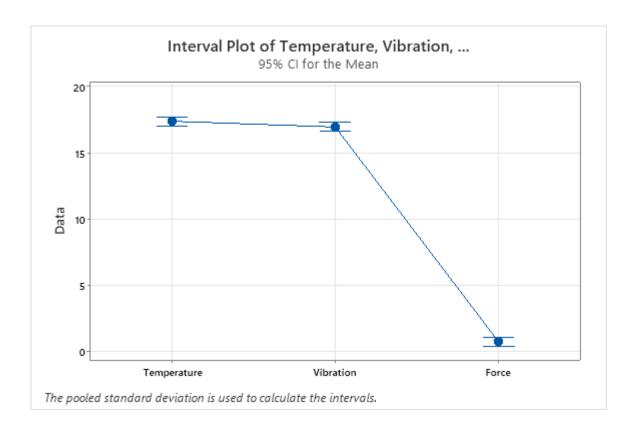
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	35649	17824.7	2904.75	0.000
Error	594	3645	6.1		
Total	596	39294			

Model Summary

	S	R-sq	R-sq(adj)	R-sq(pred)
2.477	718	90.72%	90.69%	90.63%

Means

Factor	N	Mean	StDev	95% CI
Temperature	199	17.357	3.881	(17.012, 17.702)
Vibration	199	16.923	1.419	(16.578, 17.268)
Force	199	0.7518	1.1535	(0.4069, 1.0966)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

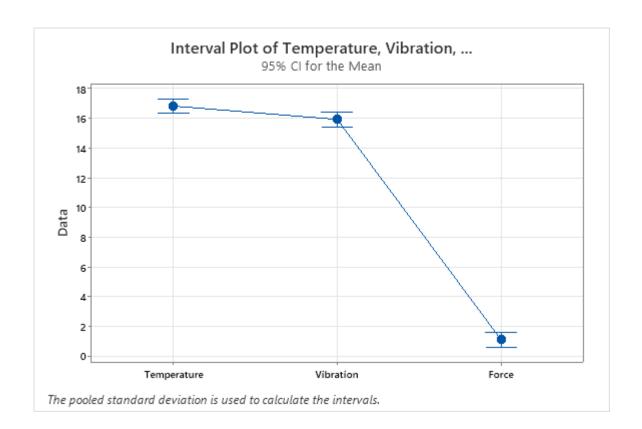
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	31093	15546.3	1262.39	0.000
Error	594	7315	12.3		
Total	596	38408			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
3.50928	80.95%	80.89%	80.76%

Means

Factor	N	Mean	StDev	95% CI
Temperature	199	16.819	4.635	(16.331, 17.308)
Vibration	199	15.921	3.805	(15.433, 16.410)
Force	199	1.0811	0.9891	(0.5925, 1.5697)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

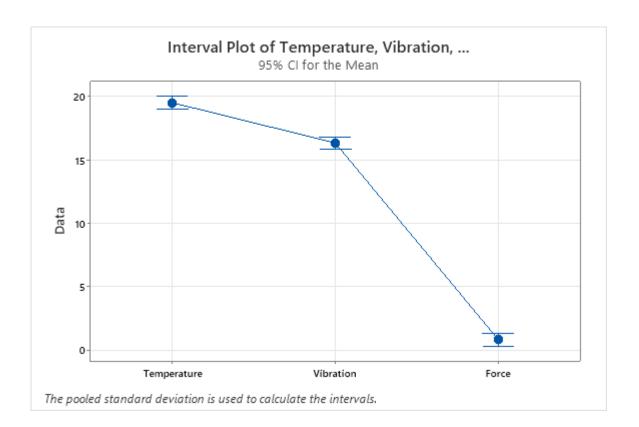
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	39932	19965.8	1649.48	0.000
Error	594	7190	12.1		
Total	596	47121			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)	
3.47912	84.74%	84.69%	84.59%	

Means

Factor	N	Mean	StDev	95% CI
Temperature	199	19.507	4.887	(19.022, 19.991)
Vibration	199	16.328	3.240	(15.843, 16.812)
Force	199	0.7878	1.3897	(0.3035, 1.2722)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

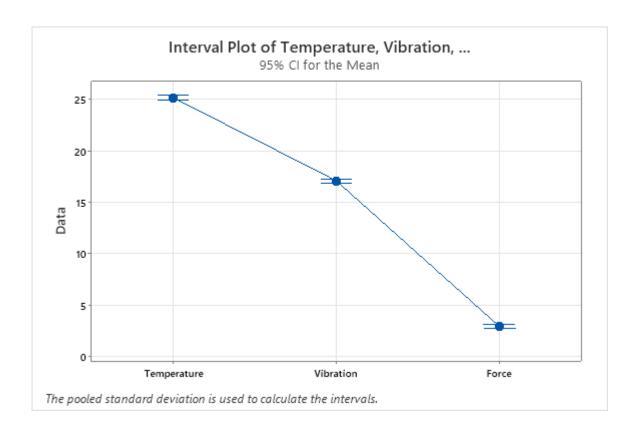
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	50828	25413.9	12321.16	0.000
Error	597	1231	2.1		
Total	599	52059			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.43618	97.63%	97.63%	97.61%

Means

Factor	Ν	Mean	StDev	95% CI
Temperature	200	25.1728	1.2921	(24.9734, 25.3722)
Vibration	200	17.079	2.016	(16.880, 17.279)
Force	200	2.9030	0.6751	(2.7035, 3.1024)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels Values	
Factor	3 Temperature, Vibration, Force	е

Analysis of Variance

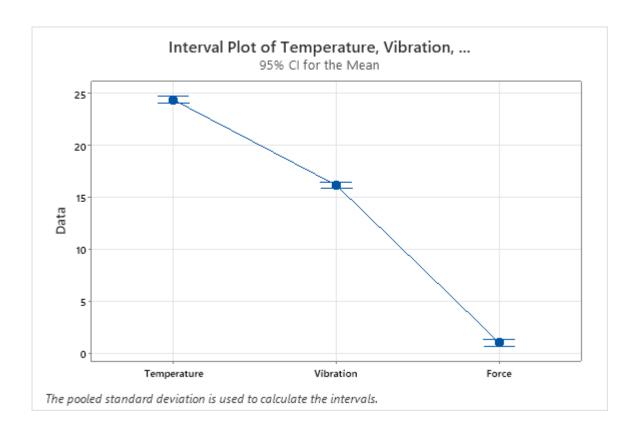
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	56492	28245.9	5797.50	0.000
Error	597	2909	4.9		
Total	599	59400			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
2.20728	95.10%	95.09%	95.05%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	24.423	1.651	(24.116, 24.729)
Vibration	200	16.184	3.051	(15.877, 16.490)
Force	200	0.996	1.606	(0.689, 1.302)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

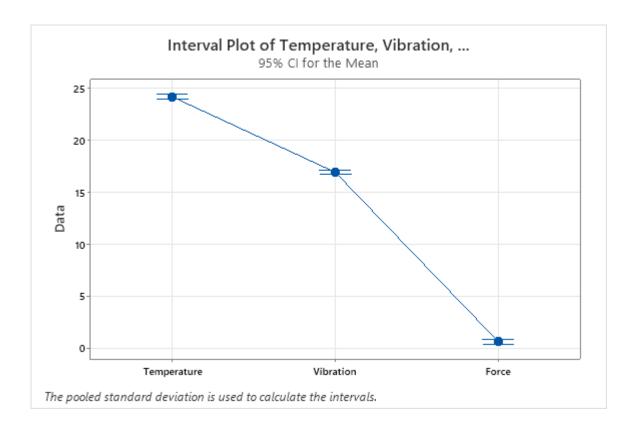
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	58423	29211.4	12558.73	0.000
Error	597	1389	2.3		
Total	599	59811			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.52512	97.68%	97.67%	97.65%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	24.1745	1.0664	(23.9627, 24.3862)
Vibration	200	16.900	2.410	(16.688, 17.111)
Force	200	0.5751	0.1825	(0.3633, 0.7869)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

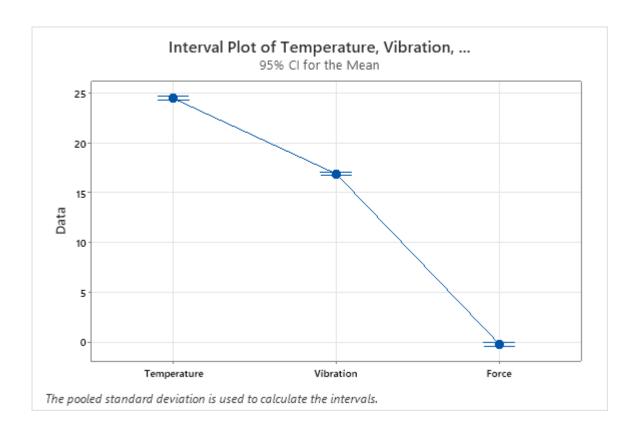
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	64153	32076.3	19052.52	0.000
Error	597	1005	1.7		
Total	599	65158			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.29753	98.46%	98.45%	98.44%

Means

Factor	Ν	Mean	StDev	95% CI
Temperature	200	24.4862	0.7322	(24.3060, 24.6664)
Vibration	200	16.887	2.112	(16.707, 17.067)
Force	200	-0.2379	0.2330	(-0.4181, -0.0578)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

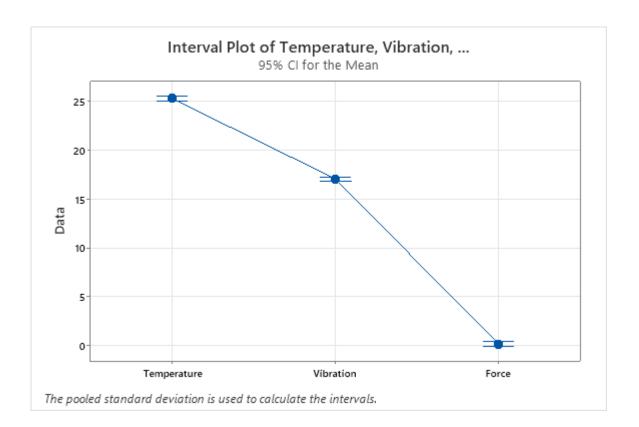
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	65516	32757.8	14578.70	0.000
Error	597	1341	2.2		
Total	599	66857			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.49899	97.99%	97.99%	97.97%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	25.2609	0.9546	(25.0527, 25.4691)
Vibration	200	17.049	2.371	(16.841, 17.257)
Force	200	0.1600	0.4538	(-0.0482, 0.3682)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

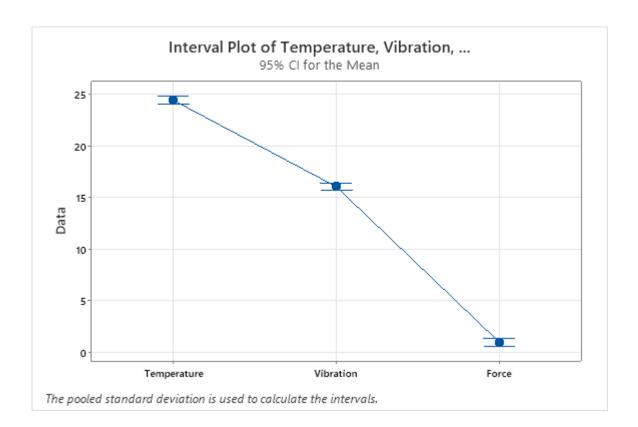
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	56662	28331.0	4433.62	0.000
Error	597	3815	6.4		
Total	599	60477			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
2.52785	93.69%	93.67%	93.63%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	24.4376	0.7419	(24.0866, 24.7886)
Vibration	200	16.046	3.439	(15.695, 16.397)
Force	200	0.951	2.607	(0.600, 1.302)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

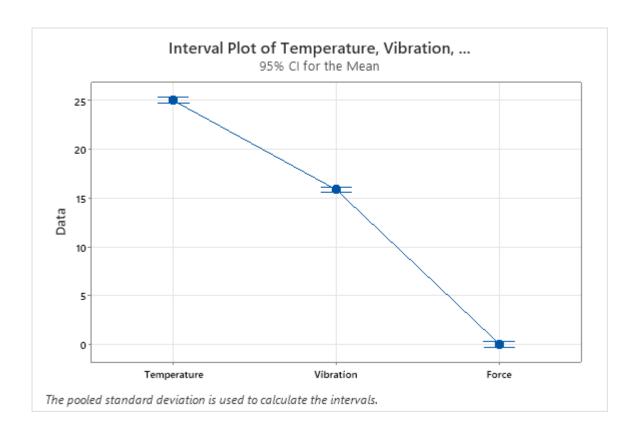
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	64093	32046.3	7005.13	0.000
Error	597	2731	4.6		
Total	599	66824			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
2.13885	95.91%	95.90%	95.87%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	25.0284	1.2091	(24.7314, 25.3254)
Vibration	200	15.861	3.451	(15.564, 16.158)
Force	200	0.0078	0.5935	(-0.2892, 0.3049)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

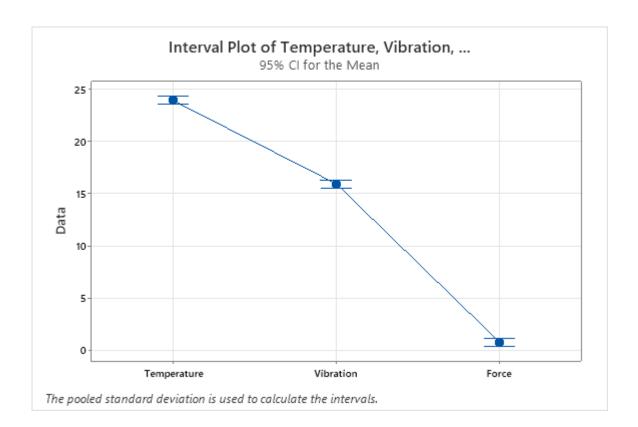
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	55416	27708.2	3638.80	0.000
Error	597	4546	7.6		
Total	599	59962			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
2.75946	92.42%	92.39%	92.34%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	23.9347	1.0090	(23.5515, 24.3179)
Vibration	200	15.937	4.560	(15.554, 16.321)
Force	200	0.7617	1.0180	(0.3785, 1.1449)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels Values	
Factor	3 Temperature, Vibration, Fo	rce

Analysis of Variance

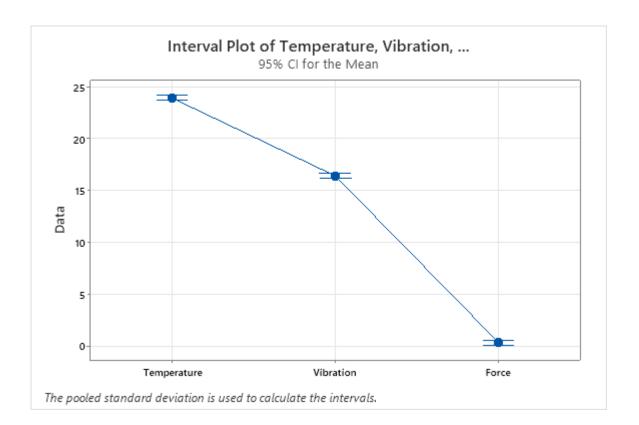
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	58157	29078.7	9402.76	0.000
Error	597	1846	3.1		
Total	599	60004			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.75857	96.92%	96.91%	96.89%

Means

Factor	Ν	Mean	StDev	95% CI
Temperature	200	23.9169	1.0099	(23.6727, 24.1611)
Vibration	200	16.403	2.775	(16.159, 16.647)
Force	200	0.3146	0.7465	(0.0704, 0.5588)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$ Rows unused 1

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

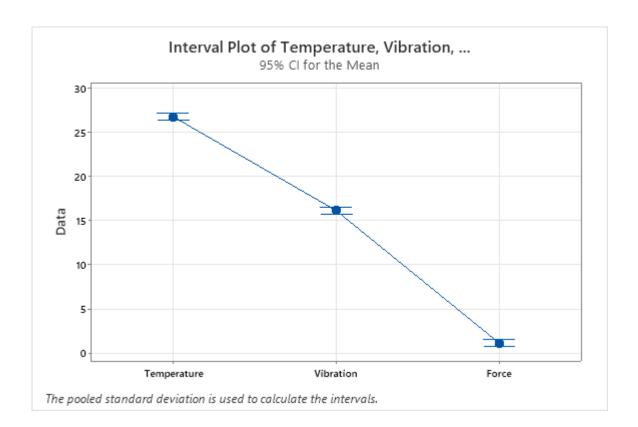
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	65897	32948.4	3731.92	0.000
Error	596	5262	8.8		
Total	598	71159			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
2.97133	92.61%	92.58%	92.53%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	26.6757	1.3091	(26.2631, 27.0883)
Vibration	200	16.067	4.135	(15.654, 16.479)
Force	199	1.094	2.769	(0.680, 1.507)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

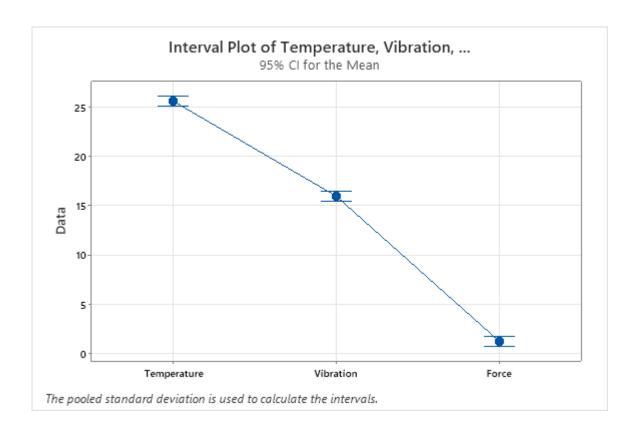
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	60519	30259.7	2731.18	0.000
Error	597	6614	11.1		
Total	599	67134			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
3.32857	90.15%	90.11%	90.05%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	25.618	1.802	(25.155, 26.080)
Vibration	200	15.951	4.753	(15.489, 16.413)
Force	200	1.193	2.721	(0.731, 1.655)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

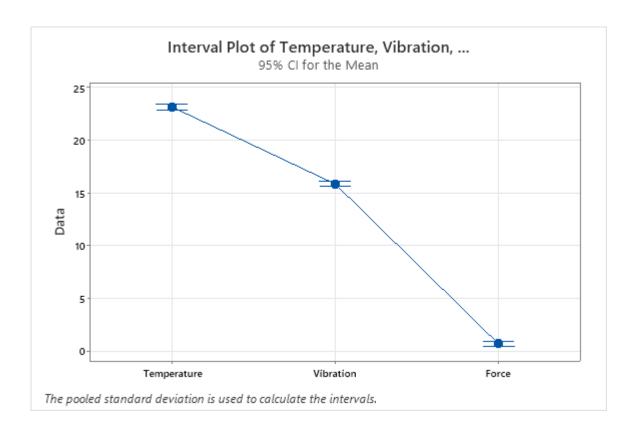
Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	52578	26289.0	7897.08	0.000
Error	597	1987	3.3		
Total	599	54565			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.82454	96.36%	96.35%	96.32%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	23.140	1.687	(22.887, 23.394)
Vibration	200	15.830	2.622	(15.576, 16.083)
Force	200	0.6636	0.5135	(0.4102, 0.9169)



Method

Null hypothesis All means are equal
Alternative hypothesis Not all means are equal

Significance level $\alpha = 0.05$

Equal variances were assumed for the analysis.

Factor Information

Factor	Levels	Values
Factor	3	Temperature, Vibration, Force

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	2	53072	26536.1	14710.07	0.000
Error	597	1077	1.8		
Total	599	54149			

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
1.34311	98.01%	98.00%	97.99%

Means

Factor	N	Mean	StDev	95% CI
Temperature	200	22.7845	0.4917	(22.5980, 22.9710)
Vibration	200	16.530	2.106	(16.344, 16.717)
Force	200	0.4557	0.8582	(0.2692, 0.6422)

