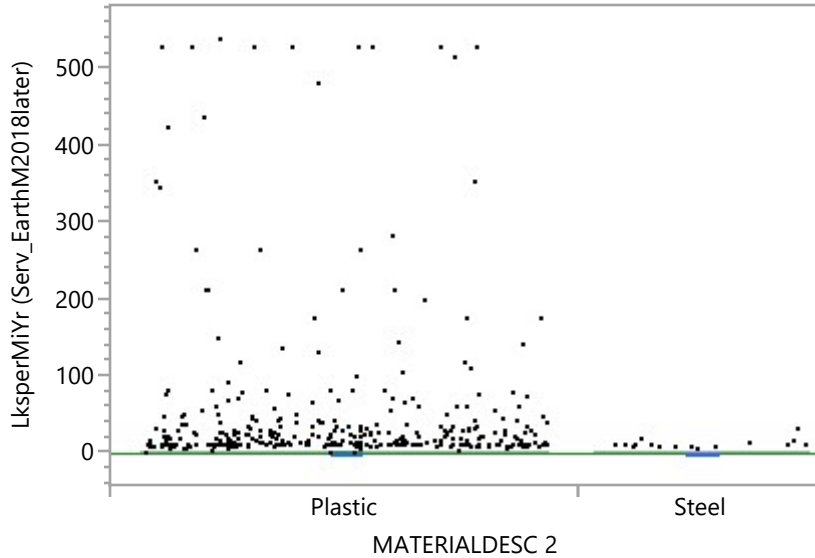


Oneway Analysis of LksperMiYr (Serv_EarthM2018later) By MATERIALDESC 2



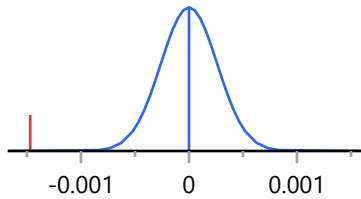
Oneway Anova

Pooled t Test

Steel-Plastic

Assuming equal variances

Difference	-0.00147	t Ratio	-5.62778
Std Err Dif	0.00026	DF	3914314
Upper CL Dif	-0.00095	Prob > t	<.0001*
Lower CL Dif	-0.00198	Prob > t	1.0000
Confidence	0.95	Prob < t	<.0001*



Analysis of Variance

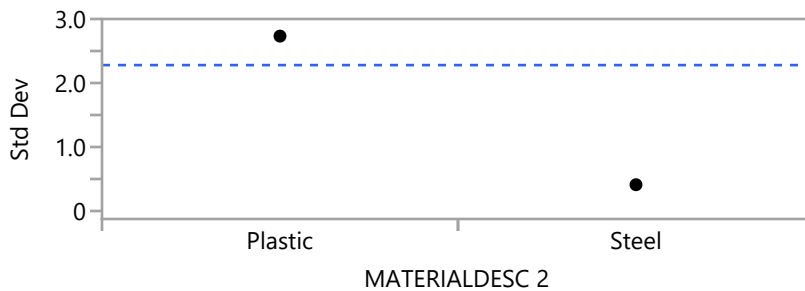
Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
MATERIALDESC 2	1	165	164.915	31.6719	<.0001*
Error	3914314	20381747	5.207		
C. Total	3914315	20381912			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
Plastic	224364637	0.001610	0.00015	0.0013	0.00191
Steel	116846310	0.000145	0.00021	-0.0003	0.00056

Std Error uses a pooled estimate of error variance

Tests that the Variances are Equal



Oneway Analysis of LksperMiYr (Serv_EarthM2018later) By MATERIALDESC 2

Tests that the Variances are Equal

Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
Plastic	2.2e+8	2.733754	0.0032190	0.0016097
Steel	1.2e+8	0.419214	0.0002892	0.0001446

Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	1.0801	1	3.9e+6	0.2987
Brown-Forsythe	31.6719	1	3.9e+6	<.0001*
Levene	126.6764	1	3.9e+6	<.0001*
Bartlett	3144422.5	1	.	<.0001*
F Test 2-sided	42.5253	2.7e+6	1.2e+6	<.0001*

Welch's Test

Welch Anova testing Means Equal, allowing Std Devs Not Equal

F Ratio	DFNum	DFDen	Prob > F
61.6551	1	2.4e+8	<.0001*

t Test
7.8521

Weight ShapeLengthValue

Excluded Rows 235936