Course	ENGR 13300	Semester	/eg. Fall 2024/
Assignment Name	/eg. HW3 EX3 Team #2/	Section	/eg. LC1/
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<--- replace the shaded text with actual values

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obtained from any other unauthorized source, either modified or unmodified. Neither have I/we provided access to my/our

Problem Description /add a description and delete this comment/

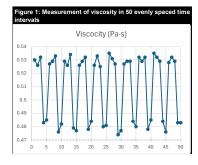
Table 1: Given measurem	ent data	
Sample time interval (unitless) Viscocity (Pa·s)		
	Viscocity (Pa·s)	
1	0.53	
2 3	0.526	
	0.532	
4	0.483	
5	0.485 0.527	
6 7	0.527	
8	0.533	
9	0.476	
10	0.482	
11	0.482	
12	0.529	
13	0.534	
13	0.534	
15	0.479	
16	0.526	
17	0.529	
18	0.529	
19	0.478	
20	0.478	
21	0.526	
22	0.533	
23	0.525	
24	0.48	
25	0.481	
26	0.535	
27	0.531	
28	0.527	
29	0.474	
30	0.477	
31	0.527	
32	0.529	
33	0.529	
34	0.484	
35	0.48	
36	0.532	
37	0.529	
38	0.532	
39	0.478	
40	0.485	
41	0.535	
42	0.532	
43	0.529	
44	0.484	
45	0.476	
46	0.528	
47	0.532	
48	0.529	
49	0.483	
50	0.483	

## Calculation Section:

Table 2: Compute number of data points within and specifications	outside the
specification interval lower border (Pa*s)	0.475
specification interval upper border (Pa*s)	0.525
number of measurements below interval	1
number of measurements above interval	20
number of total time intervals	50
outside specification	21
within specification	29

Table 3: Computation of percentage of values v	within
within specification	58.00%

## Figure Section:



#3: Type of plot		
	Scatter Plot	

a) Does the data appear to have outliers or errors in measurement? Why or why not?

There may be an error in measurement because the viscosity is occasionally high, around .53. and low, around .48, with no measurements in between, it may be necessary to check what processes are occuring during the measurement period that may affect the viscosity.

b) What percentage of the measurements meets the specification of being within [.475,.525]Pa\*s

58% of the measurements fall in the specification

c) Given your answer to the previous question, and your plot, summarize the engineer's main message to the engineering team about the process.

# Figure 2: Measurements of viscosity in 50 evenly spaced me intervals with specification interval

The manufacturing process needs to be considered as it is producing viscosities often above the tolerances specified

