

# Propeller Inspection [Summary]

27-Feb-2025 04:59 PM

Prepared by:



Customer: DEMO  
 Vessel:  
 Job: DEMO  
 Scan: A (27-Feb-2025 04:55 PM)  
 Source: Metrology-Grade 3D Laser Scanner

**MEETS OR EXCEEDS CLASS 1.**

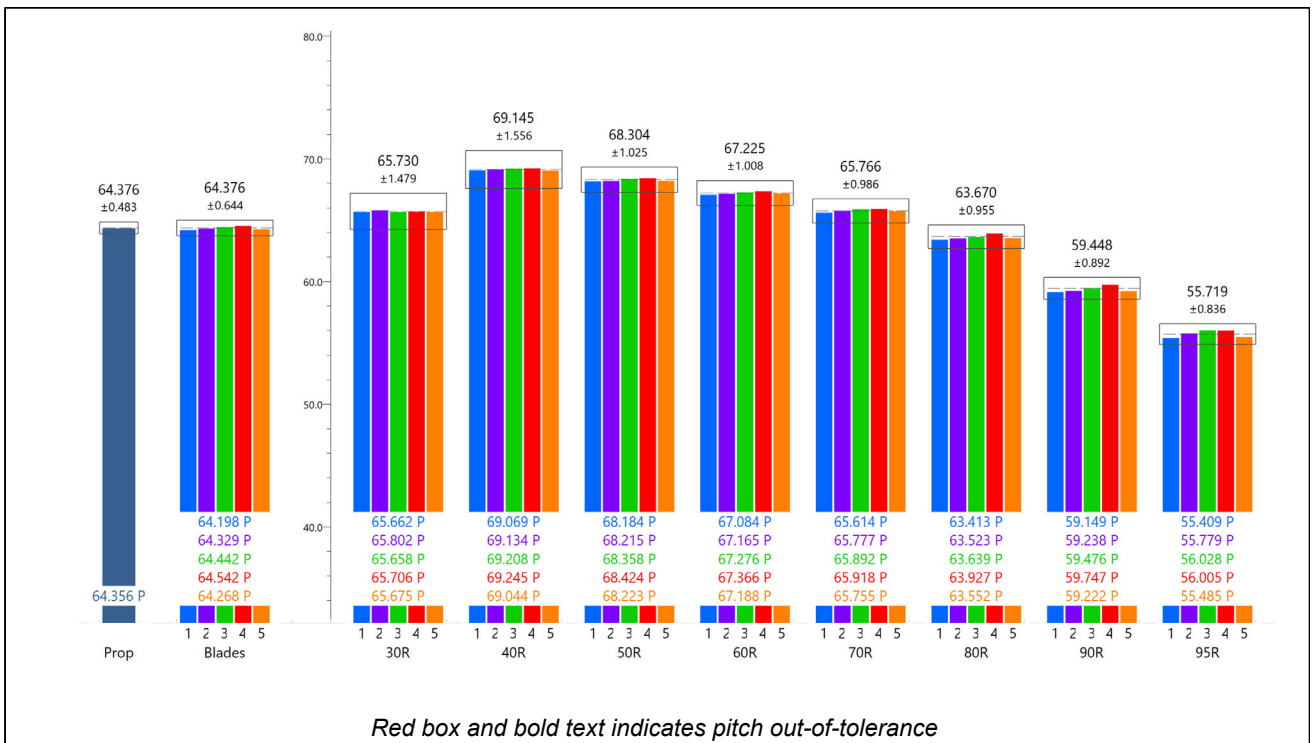
## Evaluation: ISO 484-2 Primary Summary

[X] = Fail

ISO Radii	Prop Pitch	Blade Pitch	Section Pitch	Local Pitch	Tip Diameters	Chord Length	LE Skew	Rake Track	Blade Spacing
PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

## Propeller properties

Manufacturer:	Blades:	<b>5</b>
Model:	Rotation:	<b>Right</b>
Serial Number:	Diam(stamp/ref/scan):	<b>46.000 / 46.000 / 45.979 in</b>
Material:	Pitch(stamp/ref/scan):	<b>64.376 / 64.376 / 64.356 in</b>
Bore:	LE Exclusion:	<b>0.460 in</b>
Reference:	TE Exclusion:	<b>0.460 in</b>
Eff. Pitch:	Eff. FCR:	<b>0.0115</b>
Estim. EAR:		<b>0.948</b>
		<b>Scan A blades[1, 2, 3, 4, 5]</b>



Project ID: TPS-20250227-9

TrueProp 2024 24.04.0090.0117.CN-NQ-GJ

# Propeller Inspection [Graphs]

27-Feb-2025 04:59 PM

ISO 484-2 Primary

Evaluation: **MEETS OR EXCEEDS CLASS 1.**

Customer: **DEMO**

Job: **DEMO**

Scan: **A (27-Feb-2025 04:55 PM)**

Source: **Metrology-Grade 3D Laser Scanner**

p2



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# Propeller Inspection [Graphs]

27-Feb-2025 04:59 PM

ISO 484-2 Primary

Evaluation: **MEETS OR EXCEEDS CLASS 1.**

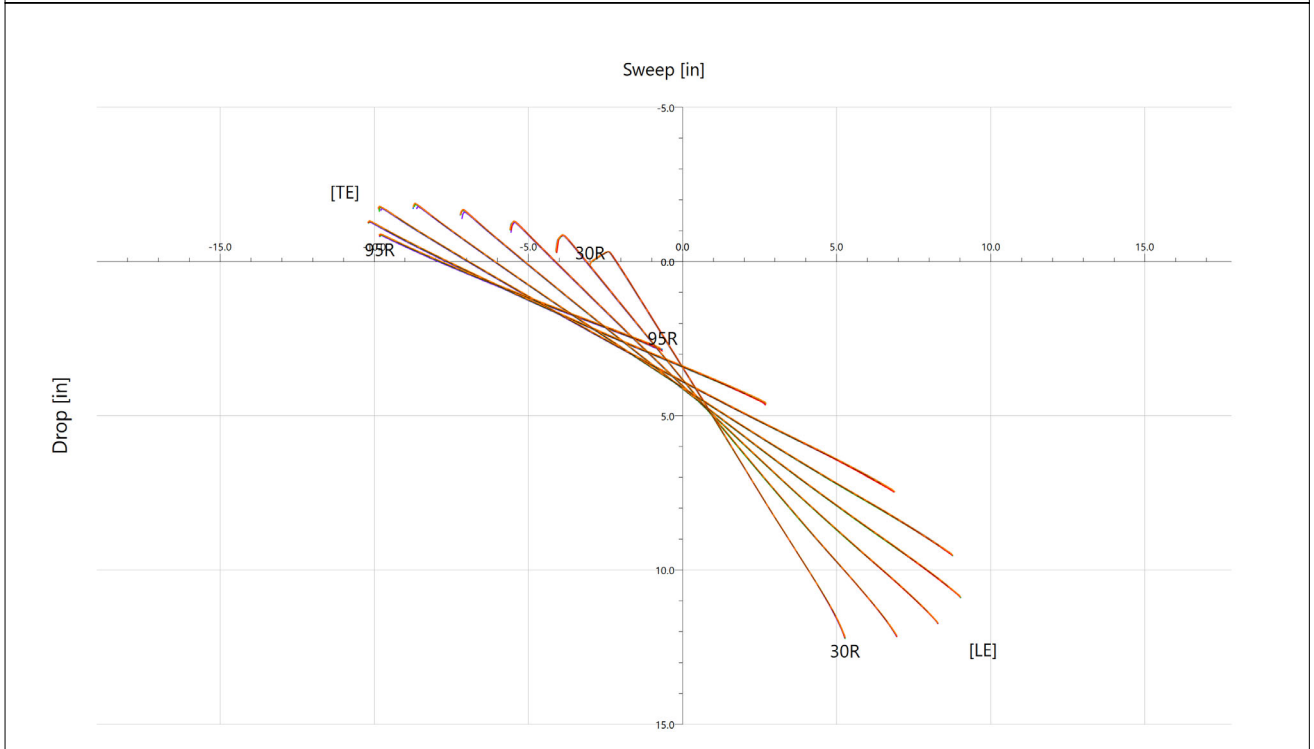
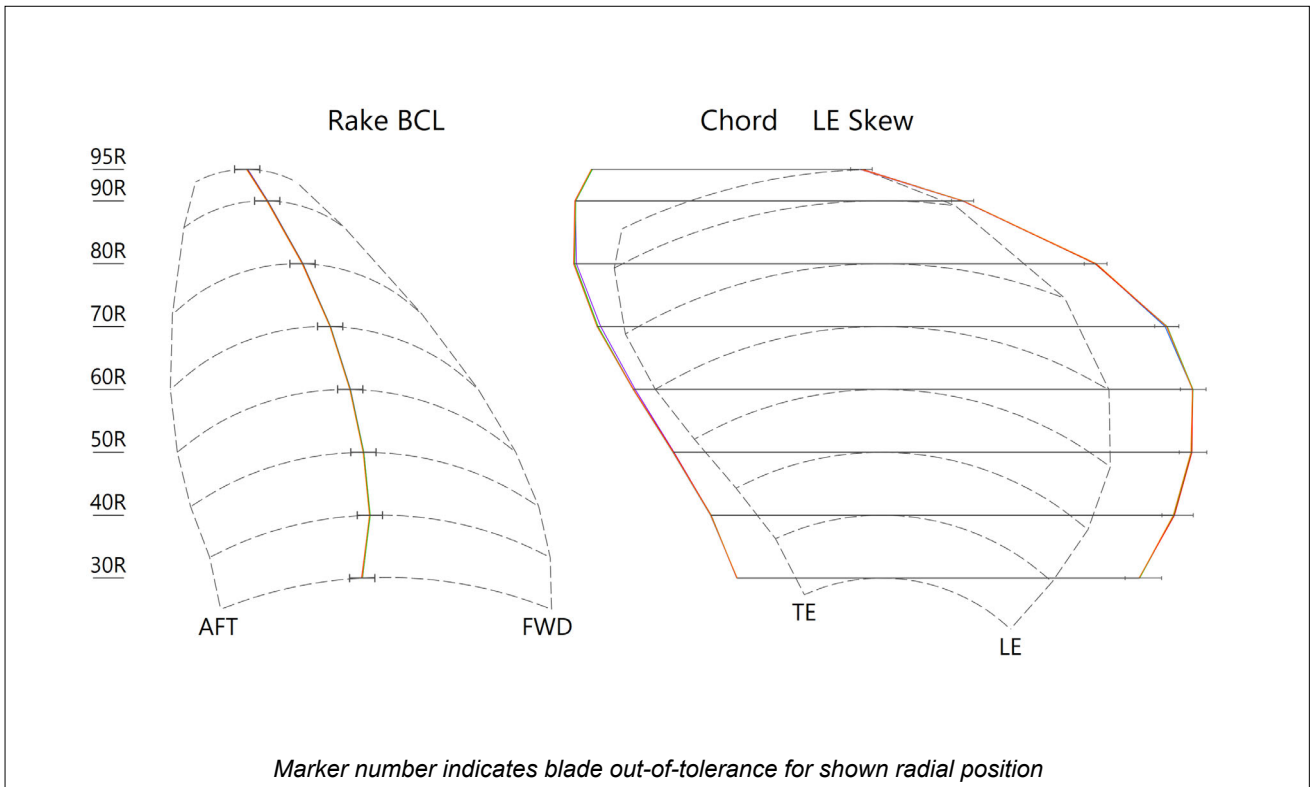
Customer: **DEMO**

Job: **DEMO**

Scan: **A (27-Feb-2025 04:55 PM)**

Source: **Metrology-Grade 3D Laser Scanner**

p3



# Propeller Inspection [Diam & Pitch]

27-Feb-2025 04:59 PM

ISO 484-2 Primary

Evaluation: MEETS OR EXCEEDS CLASS 1.

Customer: DEMO

Job: DEMO

Scan: A (27-Feb-2025 04:55 PM)

Source: Metrology-Grade 3D Laser Scanner

p4

## Diameter [Rule 8]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
45.979	46.000	45.974	45.922	45.985	45.989	46.026		

## Spacing [Rule 12.3]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
-	0.0	-0.02	0.04	0.00	0.00	-0.02		

## Pitch [Rules 7c, 7d]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
ISO	64.356	64.376	64.198	64.329	64.442	64.542	64.268	
Effective	64.268	65.059	64.876	64.985	65.113	65.239	64.966	

## Section Pitch [Rule 7b]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
95R	55.719	55.409	55.779	56.028	56.005	55.485		
90R	59.448	59.149	59.238	59.476	59.747	59.222		
80R	63.670	63.413	63.523	63.639	63.927	63.552		
70R	65.766	65.614	65.777	65.892	65.918	65.755		
60R	67.225	67.084	67.165	67.276	67.366	67.188		
50R	68.304	68.184	68.215	68.358	68.424	68.223		
40R	69.145	69.069	69.134	69.208	69.245	69.044		
30R	65.730	65.662	65.802	65.658	65.706	65.675		

## Local Segment Pitch [Rule 7a, 10.2]

		30R	40R	50R	60R	70R	80R	90R	95R
Ref	A(TE)	57.331	70.391	71.152	71.313	70.682	69.149	64.775	60.259
	B	70.590	69.498	68.570	67.290	65.447	62.807	58.124	54.238
	C(LE)	70.566	67.580	65.309	63.253	61.364	59.236	55.576	52.739
Blade 1	A(TE)	57.498	70.267	70.974	71.161	70.539	68.924	64.359	59.904
	B	70.385	69.246	68.447	67.142	65.397	62.648	58.001	54.164
	C(LE)	70.320	67.722	65.244	63.131	61.106	58.854	55.212	52.240
Blade 2	A(TE)	57.361	70.405	71.125	71.242	70.686	69.113	64.608	60.269
	B	70.442	69.506	68.413	67.287	65.477	62.649	57.953	54.257
	C(LE)	70.912	67.527	65.226	63.149	61.366	58.997	55.285	52.888
Blade 3	A(TE)	57.127	70.582	71.329	71.469	70.906	69.225	64.946	60.549
	B	70.621	69.702	68.692	67.400	65.533	62.849	58.118	54.383
	C(LE)	70.567	67.388	65.185	63.152	61.440	59.035	55.500	53.232
Blade 4	A(TE)	57.053	70.516	71.228	71.399	70.833	69.240	64.937	60.469
	B	70.908	69.551	68.683	67.377	65.515	62.866	58.163	54.410
	C(LE)	70.537	67.702	65.477	63.496	61.598	59.842	56.263	53.214
Blade 5	A(TE)	57.471	70.161	70.980	71.234	70.586	68.928	64.570	60.235
	B	70.482	69.473	68.509	67.200	65.451	62.725	57.977	54.081
	C(LE)	70.305	67.531	65.293	63.307	61.417	59.181	55.252	52.227

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# Propeller Inspection [Sections]

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ISO 484-2 Primary

Evaluation: **MEETS OR EXCEEDS CLASS 1.**

Customer: **DEMO**

p5

Job: **DEMO**

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## Chord [Rule 11]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
95R	9.871	9.888	9.823	9.858	9.929	9.859		
90R	14.177	14.179	14.157	14.162	14.192	14.195		
80R	19.067	19.076	19.008	19.038	19.089	19.126		
70R	20.807	20.785	20.734	20.828	20.839	20.849		
60R	20.453	20.475	20.396	20.472	20.454	20.465		
50R	18.956	18.975	18.923	18.969	18.965	18.949		
40R	16.942	16.952	16.943	16.924	16.962	16.928		
30R	14.723	14.724	14.730	14.739	14.714	14.706		

## LE Skew [Rule 12.2]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
95R	-0.739	-0.696	-0.809	-0.733	-0.698	-0.757		
90R	2.966	2.991	2.923	2.964	2.963	2.988		
80R	7.830	7.840	7.824	7.802	7.816	7.870		
70R	10.430	10.390	10.442	10.446	10.426	10.448		
60R	11.405	11.416	11.402	11.408	11.391	11.410		
50R	11.394	11.400	11.386	11.395	11.394	11.394		
40R	10.831	10.835	10.826	10.824	10.834	10.834		
30R	9.572	9.580	9.556	9.580	9.562	9.582		

## Rake BCL [Rule 13]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
95R	1.068	1.071	1.095	1.073	1.060	1.043		
90R	1.804	1.805	1.824	1.812	1.797	1.780		
80R	3.098	3.098	3.115	3.107	3.093	3.075		
70R	4.111	4.114	4.123	4.119	4.104	4.094		
60R	4.839	4.844	4.855	4.845	4.828	4.823		
50R	5.327	5.329	5.340	5.340	5.316	5.312		
40R	5.557	5.557	5.566	5.574	5.547	5.542		
30R	5.280	5.288	5.291	5.290	5.256	5.276		

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