

Propeller Inspection [Summary]

05-Jun-2023 02:19 PM

Prepared by:

Midwest Boat and Prop
3701 Quail Rd
NE Sauk Rapids
MN 56379



Customer: **SCOTT GREGORY**
Vessel:
Job: **TPS-20230605-81**
Scan: **A (Initial)**
Source: **Prop Scan**

MEETS OR EXCEEDS CLASS 2.

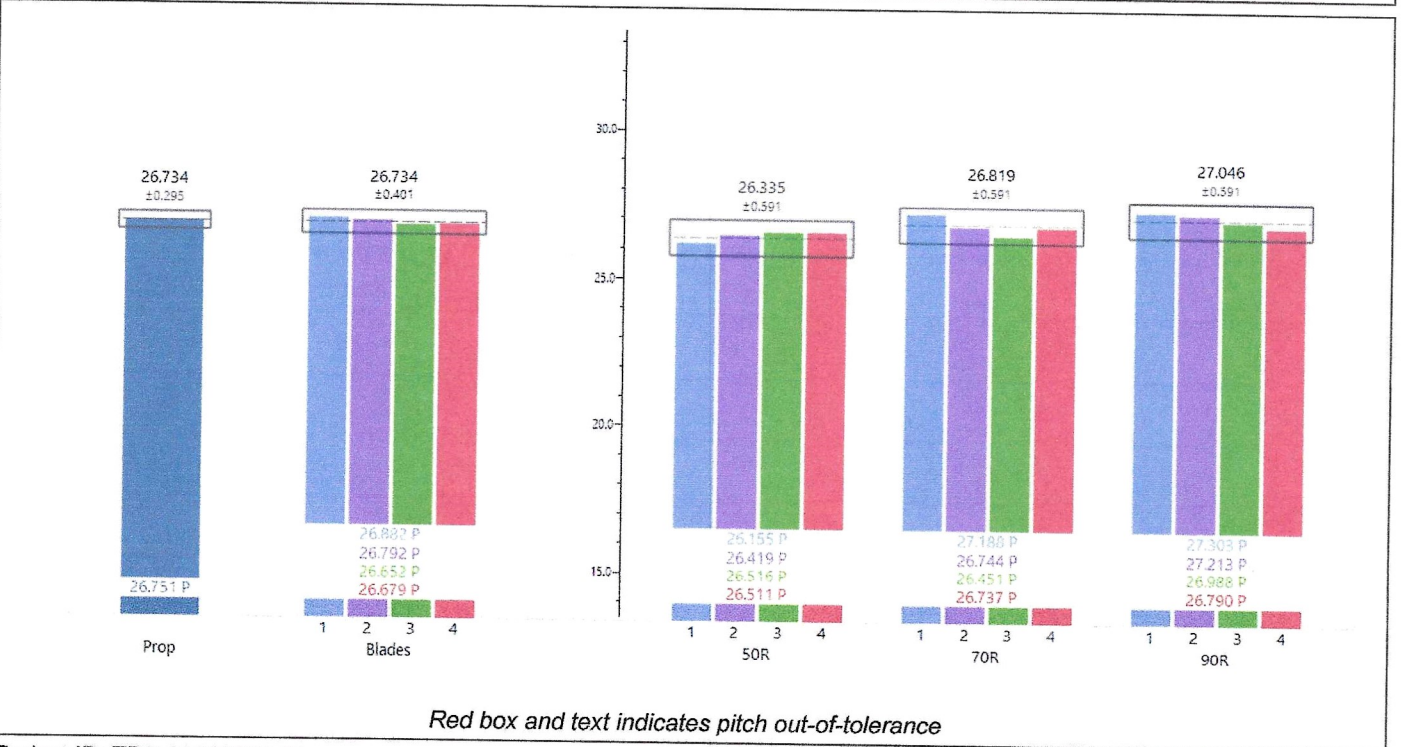
Evaluation: ISO 484-2 Primary Summary

[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

Propeller properties

Manufacturer:		Blades:	4
Model:		Rotation:	Right
Serial Number:		Diam(stamp/ref/scan):	24.000 / 24.000 / 24.000 in
Material:		Pitch(stamp/ref/scan):	26.000 / 26.734 / 26.751 in
Bore:		LE Exclusion:	0.000 in
Reference:	Scan A blades[1, 2, 3, 4]	TE Exclusion:	0.000 in
Eff. Pitch:	26.804 in	Eff. FCR:	0.0034
Estim. EAR:	0.626		



Project ID: TPS-20230605-81

TrueProp 2023 23.00.0073.101905

Propeller Inspection [Pitch]

05-Jun-2023 02:19 PM

ISO 484-2 Primary

Evaluation: MEETS OR EXCEEDS CLASS 2.

Customer: SCOTT GREGORY

p4

Job: TPS-20230605-81

Scan: A (Initial)

Source: Prop Scan

Spacing [Rule 12.3]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
-	0.0	-0.96	0.58	0.54	-0.17			

Pitch [Rules 7c, 7d]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
ISO	26.751	26.734	26.882	26.792	26.652	26.679		
Effective	26.679	26.808	27.051	26.827	26.622	26.716		

Section Pitch [Rule 7b]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
90R	27.046	27.303	27.213	26.988	26.790			
70R	26.819	27.188	26.744	26.451	26.737			
50R	26.335	26.155	26.419	26.516	26.511			
30R	[M]	[M]	[M]	[M]	[M]			

Local Segment Pitch [Rule 7a, 10.2]

		30R	50R	70R	90R
Ref	A(TE)	[M]	26.518	27.330	27.327
	B(LE)	[M]	26.153	26.313	26.767
Blade 1	A(TE)	[M]	26.414	27.771	27.633
	B(LE)	[M]	25.897	26.611	26.973
Blade 2	A(TE)	[M]	26.902	27.364	27.326
	B(LE)	[M]	25.942	26.129	27.100
Blade 3	A(TE)	[M]	26.616	26.666	27.385
	B(LE)	[M]	26.415	26.236	26.593
Blade 4	A(TE)	[M]	26.401	27.356	27.073
	B(LE)	[M]	26.621	26.124	26.508

Project ID: TPS-20230605-81

TrueProp 2023 23.00.0073.101905

Propeller Inspection [Summary]

15-Jun-2023 02:40 PM

Customer: **SCOTT GREGORY**
 Vessel:
 Job: **TPS-20230609-82**
 Scan: **Q (Intermediate)**
 Source: **Prop Scan**

Prepared by:
 Midwest Boat and Prop
 3701 Quail Rd
 NE Sauk Rapids
 MN 56379



MEETS OR EXCEEDS CLASS 2.

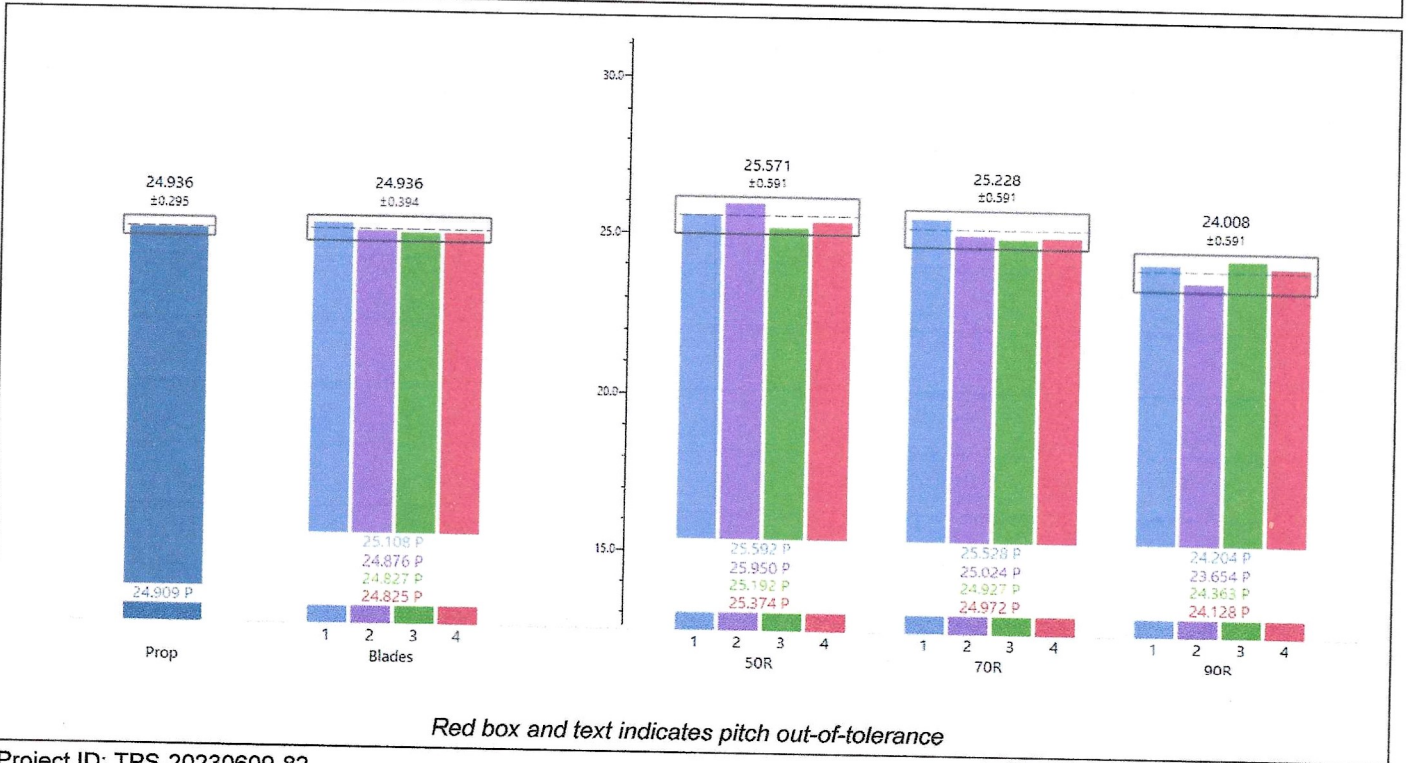
Evaluation: ISO 484-2 Primary Summary

[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

Propeller properties

Manufacturer:		Blades:	4
Model:		Rotation:	Left
Serial Number:		Diam(stamp/ref/scan):	24.000 / 24.000 / 24.000 in
Material:		Pitch(stamp/ref/scan):	26.000 / 24.936 / 24.909 in
Bore:		LE Exclusion:	0.125 in
Reference:	Scan Q blades[1, 2, 3, 4]	TE Exclusion:	0.125 in
Eff. Pitch:	24.873 in	Eff. FCR:	-0.0029
Estim. EAR:	0.651		



Project ID: TPS-20230609-82

TrueProp 2023 23.00.0073.101905

Propeller Inspection [Pitch]

15-Jun-2023 02:40 PM

ISO 484-2 Primary

Evaluation: MEETS OR EXCEEDS CLASS 2.

Customer: SCOTT GREGORY

p4

Job: TPS-20230609-82

Scan: Q (Intermediate)

Source: Prop Scan

Spacing [Rule 12.3]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
-	0.0	-0.83	0.63	-0.92	1.12			

Pitch [Rules 7c, 7d]

Prop	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
ISO	24.909	24.936	25.108	24.876	24.827	24.825		
Effective	24.825	24.917	25.151	24.763	24.797	24.780		

Section Pitch [Rule 7b]

	Ref	Blade 1	Blade 2	Blade 3	Blade 4	Blade 5	Blade 6	Blade 7
90R	24.008	24.204	23.654	24.363	24.128			
70R	25.228	25.528	25.024	24.927	24.972			
50R	25.571	25.592	25.950	25.192	25.374			
30R	[M]	[M]	[M]	[M]	[M]			

Local Segment Pitch [Rule 7a, 10.2]

		30R	50R	70R	90R
Ref	A(TE)	[M]	25.627	25.091	23.473
	B(LE)	[M]	25.515	25.365	24.547
Blade 1	A(TE)	[M]	25.770	25.473	23.734
	B(LE)	[M]	25.414	25.584	24.676
Blade 2	A(TE)	[M]	25.871	24.576	23.285
	B(LE)	[M]	26.029	25.474	24.025
Blade 3	A(TE)	[M]	25.165	25.206	23.755
	B(LE)	[M]	25.219	24.649	24.974
Blade 4	A(TE)	[M]	25.525	24.650	23.425
	B(LE)	[M]	25.224	25.296	24.835

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