

8/5/2016

Mengi Yay NB93

Noise & Vibration Measurement Results

Measurement is performed on 03.08.2016



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1 NOISE MEASUREMENT RESULTS

1.1 AT ANCHOR

	NOISE MEASUREMENT RESULTS		
	At Anchor	NOISE LIMITS (RINA COMFORT CLASS)	
		Min	Max
Engine Room	77.2	N/A	N/A
Aft SB Guest Cabin	33.8	40.0	50.0
Aft PS Guest Cabin	36.6	40.0	50.0
Fwd SB Guest Cabin	32.2	40.0	50.0
Fwd PS Guest Cabin	32.8	40.0	50.0
Main Saloon Aft	37.3	40.0	50.0
Main Saloon Fwd	36.7	40.0	50.0
Galley	45.8	40.0	50.0
Main Deck Corridor	33.7	N/A	N/A
Master Cabin	33.3	40.0	50.0
Master Cabin Office	33.5	40.0	50.0
Crew Messroom	44.7	N/A	N/A
Crew Cabin SB Aft	37.6	N/A	N/A
Crew Cabin SB Fwd	40.4	N/A	N/A
Crew Cabin PS Fwd	47.7	N/A	N/A
Wheel House	47.7	40.0	50.0
Wheel House Corridor	40.5	N/A	N/A
Captain Cabin	42.5	N/A	N/A
Upper Deck Saloon	44.7	N/A	N/A
Fly Bridge Open Area	52.0	N/A	N/A
Upper Deck Open Area	44.1	N/A	N/A
Main Deck Open Area	51.9	N/A	N/A

1.2 AT NAVIGATION

	NOISE MEASUREMENT RESULTS				
	ECO Speed 1000 RPM @8.7 knots	Cruising Speed 1350 RPM @12 knots	80% MCR 1750 RPM @ 16 knots	NOISE LIMITS (RINA COMFORT CLASS)	
				Min	Max
Engine Room	105.6	108.0	110.5	N/A	N/A
Aft SB Guest Cabin	56.9	56.5	59.0	50.0	60.0
Aft PS Guest Cabin	57.1	57.9	59.2	50.0	60.0
Fwd SB Guest Cabin	50.1	50.8	53.4	50.0	60.0
Fwd PS Guest Cabin	51.7	49.8	54.6	50.0	60.0
Main Saloon Aft	57.1	57.8	59.2	60.0	75.0
Main Saloon Fwd	56.6	57.3	59.2	60.0	75.0
Galley	52.3	54.8	55.8	55.0	65.0
Main Deck Corridor	52.2	49.9	52.4	N/A	N/A
Master Cabin	47.1	47.2	51.5	50.0	60.0
Master Cabin Office	47.7	49.1	51.1	50.0	60.0
Crew Mess Room	53.3	53.3	57.9	N/A	N/A
Crew Cabin SB Aft	49.7	52.6	55.1	N/A	N/A
Crew Cabin SB Fwd	47.8	46.4	49.7	N/A	N/A
Crew Cabin PS Fwd	52.0	52.8	54.6	N/A	N/A
Wheel House	49.3	50.0	52.8	55.0	65.0
Wheel House Corridor	50.2	49.0	49.0	N/A	N/A
Captain Cabin	N/A	N/A	N/A	N/A	N/A
Upper Deck Saloon	53.0	51.4	56.7	N/A	N/A
Fly Bridge Open Area	N/A	64.1	66.4	N/A	N/A
Upper Deck Open Area	N/A	63.2	65.9	N/A	N/A
Main Deck Open Area	N/A	79.8	80.5	N/A	N/A

2 VIBRATION MEASUREMENT RESULTS

2.1 AT ANCHOR

	VIBRATION MEASUREMENT RESULTS			
	At Anchor		VIBRATION LIMITS (RINA COMFORT CLASS)	
			Vmin (mm/s)	Vmax (mm/s)
	RMS	PEAK		
Aft SB Guest Cabin	0.09	0.26	1.00	3.00
Aft PS Guest Cabin				
Fwd SB Guest Cabin	0.04	0.13	1.00	3.00
Fwd PS Guest Cabin				
Main Saloon	0.06	0.24	1.00	3.00
Master Cabin	0.12	0.31	1.00	3.00
Crew Area	0.05	0.15	N/A	N/A
Wheel House	0.11	0.53	2.00	4.00
Upper Deck Saloon	0.14	0.40	1.00	3.00
Fly Bridge Open Area	0.26	0.79	2.00	4.00
Upper Deck Open Area	0.15	0.40	2.00	4.00
Main Deck Open Area	0.20	0.35	2.00	4.00

2.2 AT NAVIGATION

	VIBRATION MEASUREMENT RESULTS			
	ECO Speed 1000 RPM @8.7 knots		VIBRATION LIMITS (RINA COMFORT CLASS)	
			Vmin (mm/s)	Vmax (mm/s)
	RMS	PEAK		
Aft SB Guest Cabin	0.46	1.38	1.00	4.00
Aft PS Guest Cabin				
Fwd SB Guest Cabin	0.35	0.92	1.00	4.00
Fwd PS Guest Cabin				
Main Saloon	0.34	1.11	2.00	5.00
Master Cabin	0.21	0.54	1.00	4.00
Crew Area	0.17	0.51	N/A	N/A
Wheel House	0.27	0.65	2.00	5.00
Upper Deck Saloon	0.45	1.14	2.00	5.00
Fly Bridge Open Area	0.56	1.28	2.00	5.00
Upper Deck Open Area	1.00	1.99	2.00	5.00
Main Deck Open Area	0.29	0.95	2.00	5.00

	VIBRATION MEASUREMENT RESULTS			
	Cruising Speed 1350 RPM @12 knots		VIBRATION LIMITS (RINA COMFORT CLASS)	
			Vmin (mm/s)	Vmax (mm/s)
	RMS	PEAK		
Aft SB Guest Cabin	0.63	1.64	1.00	4.00
Aft PS Guest Cabin				
Fwd SB Guest Cabin	0.39	0.93	1.00	4.00
Fwd PS Guest Cabin				
Main Saloon	0.40	1.07	2.00	5.00
Master Cabin	0.20	0.60	1.00	4.00
Crew Area	0.21	0.61	N/A	N/A
Wheel Housse	0.35	0.82	2.00	5.00
Upper Deck Saloon	0.87	2.40	2.00	5.00
Fly Bridge Open Area	0.32	0.84	2.00	5.00
Upper Deck Open Area	0.39	1.11	2.00	5.00
Main Deck Open Area	0.70	1.73	2.00	5.00

	VIBRATION MEASUREMENT RESULTS			
	80% MCR 1750 RPM @ 16 knots		VIBRATION LIMITS (RINA COMFORT CLASS)	
			Vmin (mm/s)	Vmax (mm/s)
	RMS	PEAK		
Aft SB Guest Cabin	0.80	2.48	1.00	4.00
Aft PS Guest Cabin				
Fwd SB Guest Cabin	0.73	2.02	1.00	4.00
Fwd PS Guest Cabin				
Main Saloon	0.80	2.39	2.00	5.00
Master Cabin	0.50	1.61	1.00	4.00
Crew Area	0.38	1.13	N/A	N/A
Wheel Housse	0.49	1.46	2.00	5.00
Upper Deck Saloon	1.09	3.12	2.00	5.00
Fly Bridge Open Area	0.94	2.47	2.00	5.00
Upper Deck Open Area	1.05	2.81	2.00	5.00
Main Deck Open Area	0.80	2.71	2.00	5.00