

## INTRODUCING FLUVIUS

# FLUVIUS GREND

Kick-Off Meeting Constanta

Ervin Szűsz

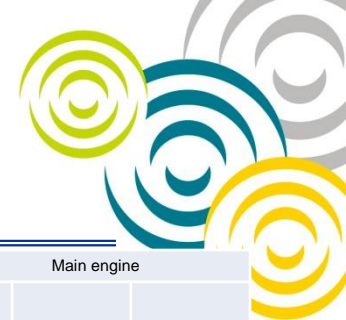
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2018.08.30 Constanta, Romania



# Our Fleet



Fluvius Fleet Data		European Register Number	Built	PDV No.	Main particulars				DWCC on different drafts		Hold/Hatch			Main engine		
					Length /m/	Breadth /m/	Max draft /m/	Air draft /m/	DWCC /to/	Cubic capacity /m3/	Hold/Hatch No. 1 L x B x H Surface Cubic	Hold/Hatch No. 2 L x B x H Surface Cubic	Hold/Hatch No. 3 L x B x H Surface Cubic	Output /Kw/	Output /HP/	Type
Elsava		04403770	1963	107023	105,04	9,49	2,50	4,60	1 605,906	2 100	12,73 x 7,87 x 3,57 m 100 m2 361 m3	39,50 x 7,87 x 3,57 m 311 m2 1114 m3	22,10 x 7,87 x 3,57 m 174 m2 625 m3 Beam in the middle	589	800	Deutz RBV 6M 545
Johanna		04801380	1909	111461	101,88	9,83	2,76	6,00	1 806,035	2 150	73,40 x 7,52 x 3,90m 552 m2 2150 m3	1 hold / 1 hatch Beam in the middle		810	1086	Wärtsila UD 25 V 12 M5D
Ulm		04002620	1972	106973	105,00	9,00	2,81	5,20	1 827,655	2 100	80,10 x 6,90 x 3,80m 552 m2 2100 m3	1 hold / 1 hatch		736	987	Deutz RBV 6M 545
Eljo-D		08648008	1937	107020	73,54	8,99	2,02	4,10	902,932	1 140	33,90 x 8,22 x 2,70m 279 m2 762 m3	16,70 x 8,22 x 2,70m 137 m2 378 m3	In the hold no.1 is beam in the middle, 2 holds/ 2 hatches	383	514	Caterpillar DITA 60 M 605
Herso-1		08648004	1962	107022	84,95	9,50	2,70	4,80	1 381,456	1 720	57,50 x 7,45 x 4,00m 428 m2 1720 m3	1 hold / 1 hatch		780	1046	Deutz RBV 8M 545
Melanie-H		38601783	1973	002634	94,92	11,4	3,00	7,76	2 552,000	2 250	60,00 x 9,00 x 4,18m 540 m2 2250 m3	1 hold / 1 hatch		1880	2520	2x Mitsubishi S12R-C2 MPTK(FW)1258 6
SL Melanie		38601784	1974	002633	76,42	11,4	3,00	x	2 255,970	2 380	65,71 x 9,00 x 4,03 591 m2 2380 m3	1 hold / 1 hatch		x	x	x
997 ex 107038		46117005	1991		76,44	10,97	2,70	x	1 740,000	1 770	62,5 x 8,5 x 3,43 m 531,5m2 1875 m3	1 hold / 1 hatch		x	x	x
54 ex 2447		46117015	1991		76,48	10,96	2,70	x	1 709,000	1 770	62,5 x 8,5 x 3,43 m 531,5m2 1875 m3	1 hold / 1 hatch		x	x	x

# Main challenges of a Danube fleet operator

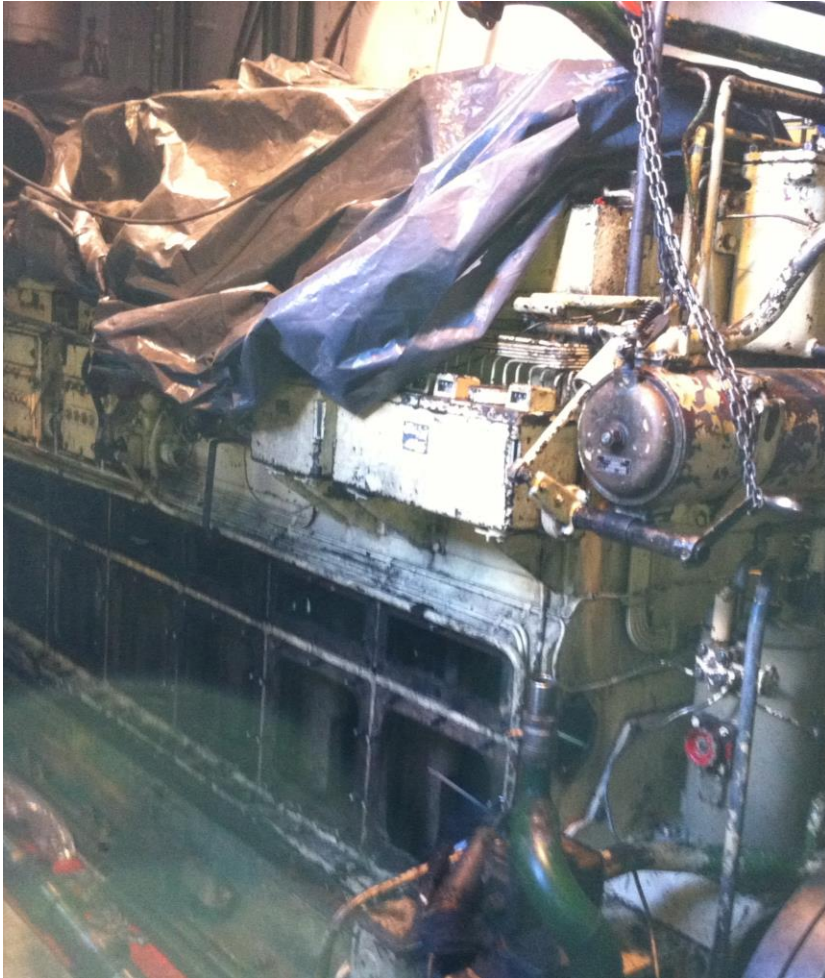


- Water level
- Crew
- No financial support for fleet operators  
( maximum 5 years)

## Technical side:

- Old engines
- Missing parts for old technologies
- Not enough funds for maintenance and  
for development

# Old Engine, old parts,

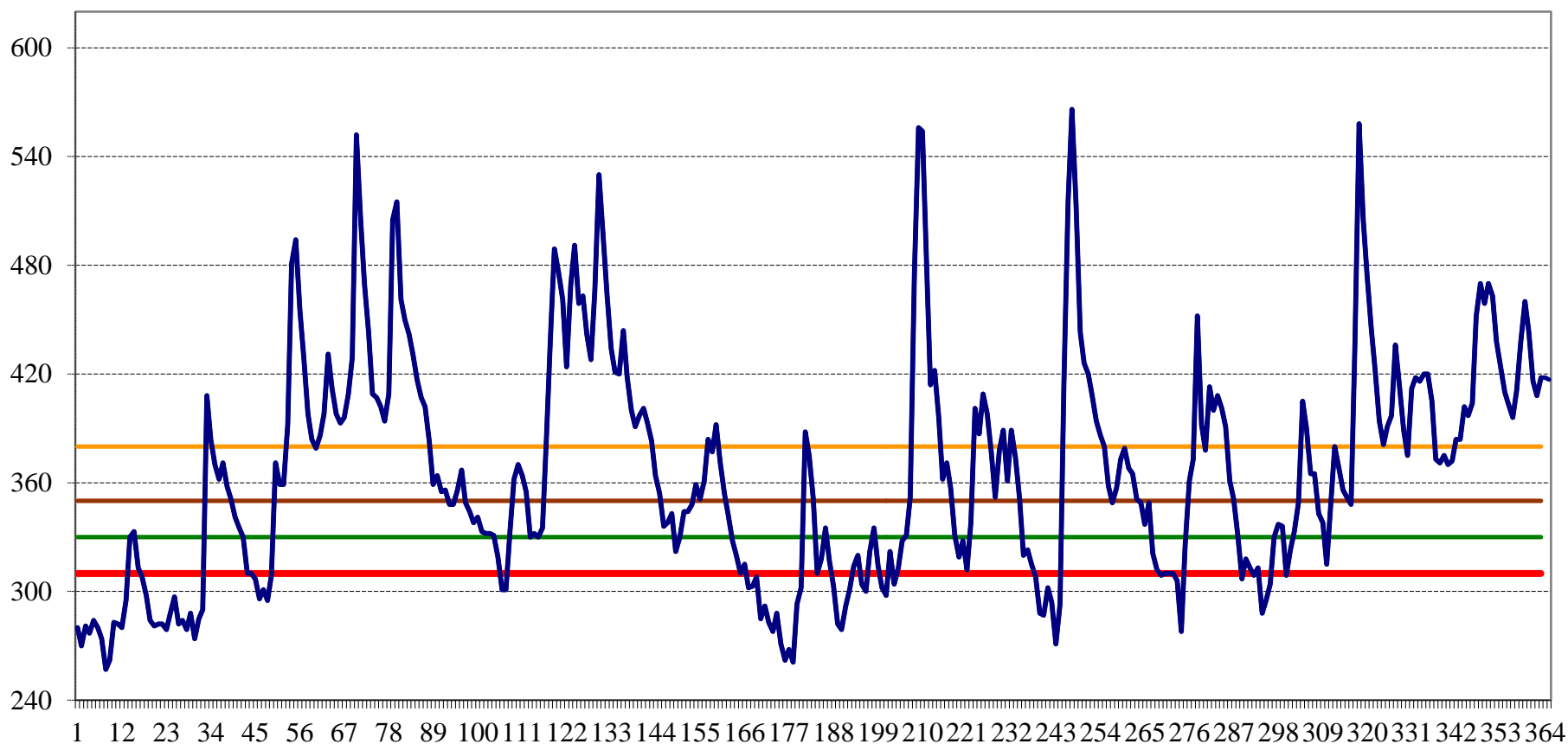


# Waterlevel



Pfelling 2017

— 25 dm — 22 dm — 20 dm — 18 dm — Napi érték 2017



# How will Grendel help



**Look for new technologies to reduce consumption and costs**

**Which technologies are the most efficient with the old technology?**

- use of renewable sources**
- exhaust gases after treatment**
- new propeller and gearbox technologies**
- new hull designs**





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Photo: © NAVROM

## GRENDEL “Green and efficient Danube fleet”

Towards modernisation & greening of Danube inland waterborne sector and strengthening its competitiveness

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