







The image is a composite graphic illustrating the IMAC L system. At the top, a network of three desktop computers is connected to a central hub. Below this, a control room interface displays 'OIL OPERATING SYSTEMS' with various gauges and pumps. To the left, a data table lists system parameters. At the bottom, a photograph of a ferry boat is shown.

Value	Unit	Limit ↑	Status	State
410.00	Deg	430.00	Normal	0.00
OPENED			Low	
OPENED			High	
OPENED			Low	
0.00	Deg	500.00	Normal	0.00
OPENED			Failure	
18.00	19.00 bar	20.00	Warning	0.00
CLOSED			Normal	
77.00	m3	95.00	Normal	0.00
OPENED			Ballast	
CLOSED			Normal	
CLOSED			Normal	
CLOSED			Normal	
			!?!	
			!?!	




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Ship	Date of delivery	Ship's data	Ship's type Ship's size	Class	Scope of supply
	2008/02	ORION Inocar Ecuador Upgrade	Oceanic Research Vessel	ABS	IMAC L with 400 I/Os for machinery monitoring 2 OS 1 PCU Data Highway: PROFIBUS
	2007/09	GARZPROM II Mexico Upgrade	Crane Ship	RMRS	IMAC L with 2.400 I/Os for machinery automation 3 OS 1 PCU Data Highway: PROFIBUS
	2007/07	Tender MAIN German Navy Upgrade	Navy Supply Vessel	GL	IMAC L with 500 I/Os for machinery monitoring 1 OS, 1 MOS 1 PCU Data Highway: PROFIBUS


EAS = Extended Alarming System | ET = Extended Terminals | FO = Fibre Optical | DG = Diesel Generator | I/O = Input / Output (Channel) | OS = Operator Station | PCM = Pump Control Monitoring | PCU = Process Control Unit | PMS = Power Management System | RSC = ME Remote Control System | SCU = Sub Control Unit | SPC = Speed Controller | TG = Turbine Generator

Ship	Date of delivery	Ship's data	Ship's type Ship's size	Class	Scope of supply
	2007/01	SS Fragata Libertad Armada Republica Argentina Upgrade	Cadet Training Ship		IMAC L with 500 measuring points divided in 4 measuring stations (Fore, Port, Starboard and Center) and 400 measuring points via PROFIBUS. 3 OS, 2 in MCR and 1 in battle damage control room. 1 Printer. Control and Monitoring of four PMS71. Monitoring of 7 SIMOREG DC MASTER for 6 Sail winch's and 1 anchor winch via PROFIBUS.
	2006/03	MV HYAK Washington State Ferries USA Upgrade	Double-End Ferry	ABS	IMAC L with 550 I/Os for machinery monitoring 4 OS, 2 printer 3 PCUs Data Highway: FO ring BUS
	2005/07	MV YAKIMA Washington State Ferries USA Upgrade	Double-End Ferry	ABS	IMAC L with 550 I/Os for machinery automation 4 OS, 2 printer 3 PCUs Data Highway: FO ring BUS

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	2005/04	LIMA 2 Royal Navy of Oman Oman Upgrade	Navy Supply Vessel		IMAC L with 750 I/Os for machinery monitoring 2 OS 1 PCU 1 serial link to 2 RCS Data Highway: PROFIBUS
	2005/02	A-ROSA LUNA A-Rosa New Building	River Cruiser		IMAC L with 200 I/Os 1 OS (with Touch Screen) 1 PCU SIMATIC S7
	2005/02	A-ROSA STELLA A-Rosa New Building	River Cruiser		IMAC L with 200 I/Os 1 OS (with Touch Screen) 1 PCU SIMATIC S7

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Ship	Date of delivery	Ship's data	Ship's type Ship's size	Class	Scope of supply
	2005/01	MV KALEETAN Washington State Ferries USA Upgrade	Double-End Ferry	ABS	IMAC L with 550 I/Os for machinery automation 4 OS, 2 printer 3 PCUs Data Highway: FO ring BUS