

from eni research

marine

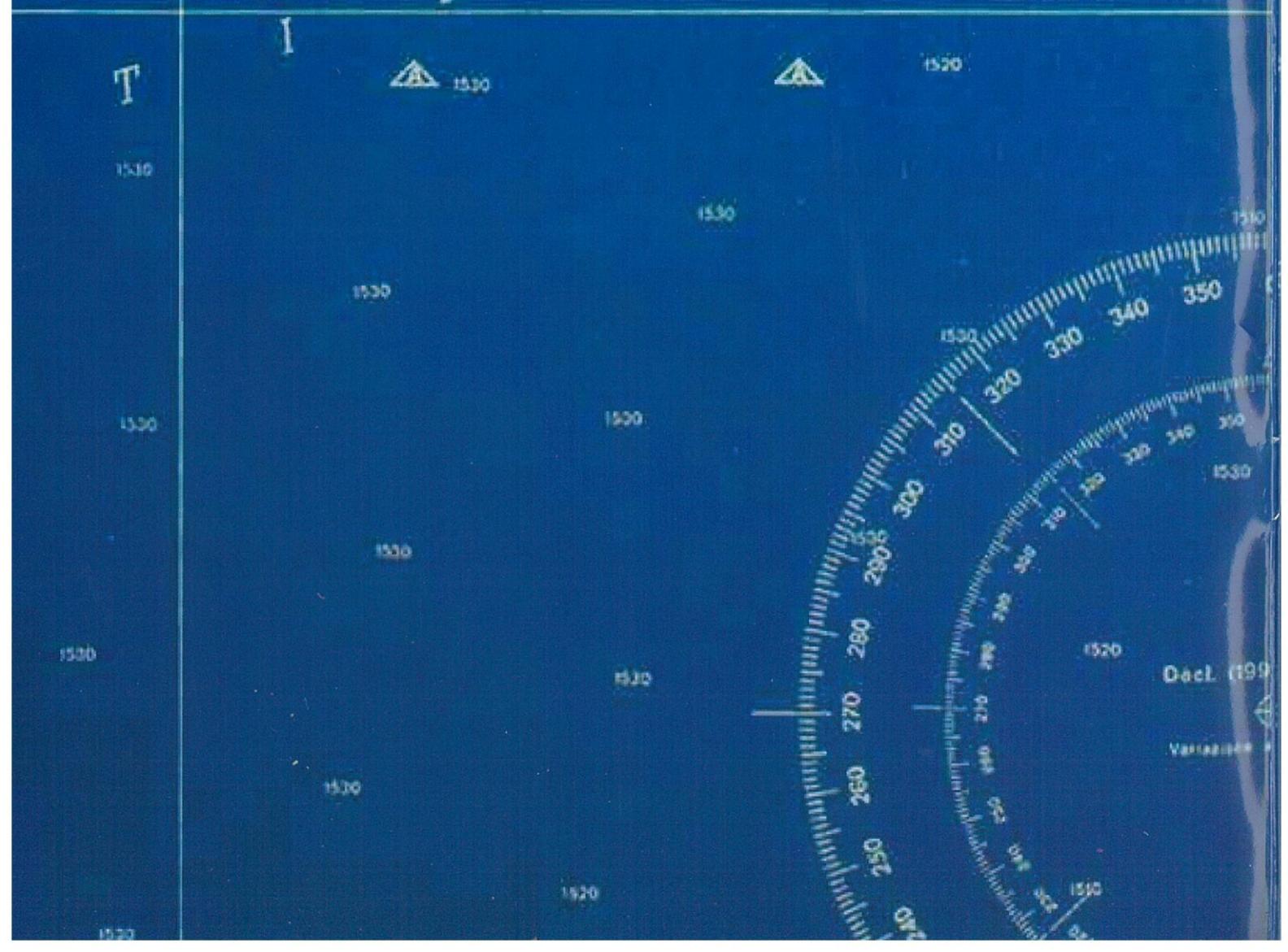
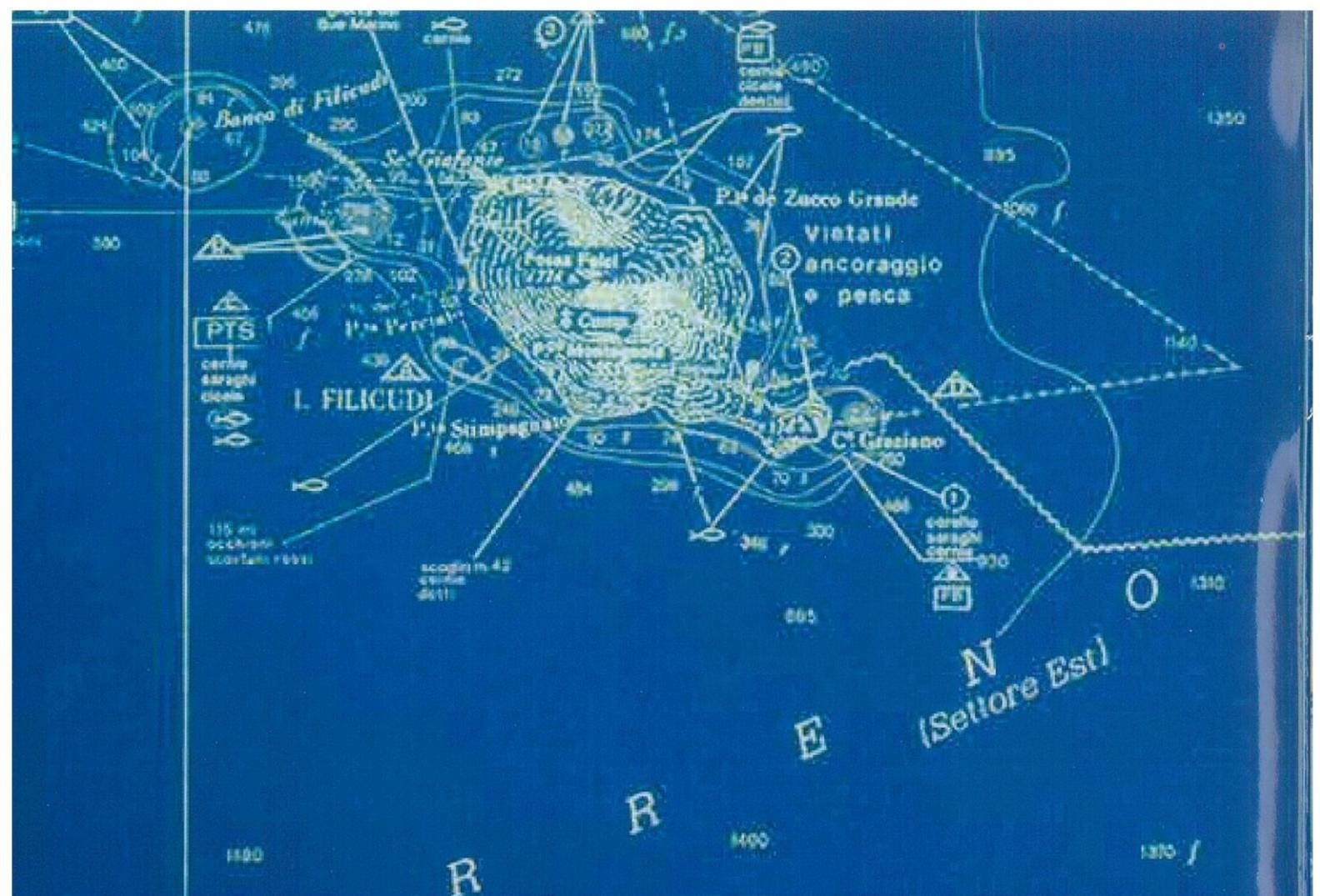


BOMBO!
per
eni

eni
marine lubricants

lubricants technology comes alive





marine

eni Marine lubricants



Products and services to cover your vessel's need

From eni's Research & Development Centre comes a wide range of Marine lubricants and fluids, designed for all types of vessels, from inland barges and fishery units to bigger vessels running on less refined fuels. The product range includes technologically advanced lubricants and complementary products which have been formulated to respond to the specifications of the machinery or equipment manufacturer.

Lubricants are available in a variety of viscosity grades and base number to fit the application and operation conditions of your vessel, ensuring a cost-effective management of engines and equipment.

We strive to meet our customers' needs and demands by continuous development of our products, but also providing adequate tailored technical services. Our Fast Analysis System Testing (FAST), for example, will help you in your daily operations, monitoring the condition of your engine and machinery and avoiding expensive breakdowns.

Ever attentive to the safety and environment, eni is continuously working on the procedures and quality standards of the company. We are always focused on the safe and efficient delivery of our products with a great deal of attention to people and the environment.

Our principal goal is to provide the most important factor for all those at sea: delivering your orders with maximum speed and reliability.

engine oil

Product	Description	Specifications
low-speed engines		
Punica570	Lubricant that is formulated from a high-quality base stock, additive-treated to guarantee superior cylinder lubrication of two-stroke crosshead diesel engines running on residual fuel oil. The strong lubricating film ensures minimum ring and liner wear thus reducing engine servicing requirements.	MAN - B&W WÄRTSILÄ NEW SULZER DIESEL
Cladium 50 SAE 30	Detergent lubricant formulated from an additive-treated high quality base stock. It is suitable for use as crankcase oil in large crosshead engines with oil-cooled pistons. It can be also used as a stern tube lubricant.	New Sulzer Diesel
medium-speed engines		
Cladium 120 SAE40	API CF (Series III) lubricant, specifically formulated for naturally-aspirated or even highly supercharged marine diesel engines. Its additive package is suitably balanced in order to permit the use of either gasoil or marine diesel fuels, while ensuring top performance in engines with very high mean effective pressures. Despite its high detergent/dispersant efficiency, the demulsibility characteristics allow rapid separation of water accidentally entering the engine.	FINCANTIERI - Divisione Grandi Motori BAUDOUIN, DORMAN DIESEL DEUTZ MWM, HYUNDAI M.A.N. - B&W MIRLEES MTU marine oil NEW SULZER DIESEL NOHAB, ROLLS ROYCE - BERGEN S.E.M.T. - PIELSTICK SKL USSR MINISTRY OF MERCHANT marine VM WÄRTSILÄ ISOTTA FRASCHINI APICF
Cladium 140 S SAE 40	Specifically formulated lubricant for naturally-aspirated or even highly supercharged marine diesel engines, operating on either gasoil, Marine Diesel Oil, Light Fuel Oil (LFO), vegetable oil, or for dual fuel gas engines, according to engine manufacturer's recommendations	API CF WÄRTSILÄ "Table 1"
Cladium 300 SAE 30/40/50	API CD (Series III) lubricant for use in four-stroke diesel engines operating on residual fuels and under conditions which ask an oil with a medium-high TBN. The product is specifically designed for diesel engines, which form significant amounts of acid mist versus a low power or stop-and-go activities.	FINCANTIERI - Divisione Grandi Motori M.A.N. - B&W NEW SULZER DIESEL WÄRTSILÄ API CF
Cladium 300 S SAE 30/40	Marine engine oils of the latest generation intended for use in those modern four-stroke diesel engines operating with high-sulphur fuels which require lubricants of higher performances, namely with „anti black sludge“ properties. This lubricant provides also better deposit control in the hottest parts of the engine, namely in the piston cooling gallery.	CATERPILLAR-MAK WÄRTSILÄ
Cladium 400 SAE 30/40	Four-stroke engine oil for use in diesel engines that operate with a high sulfur content, thus requiring a particularly high TBN, particularly in operating conditions. It has so much calcium carbonate reserve in order to fight efficiently the formation of acid mists as a result of the use of fuel oil with a very high sulfur fuel. This reserve is also particularly useful in engines with very low oil consumption or operating at such low temperatures to promote sulfuric acid condensation	CATERPILLAR-MAK WÄRTSILÄ

engine oil

Product	Description	Specifications
medium-speed engines		
Cladium 400 S SAE 30/40	API CD (Series III) lubricant for use in 4-stroke diesel engines that operate on residual fuels. The product is specifically designed for diesel engines, which form significant amounts of acid mist versus a low power or stop-and-go activities. Good water separation features enable efficient separation of water that enters the engine by mistake.	CATERPILLAR-MAK WARTSILÄ
Cladium 500 S SAE 40	Lubricating oil for diesel engines, both with and without turbo charging, under the most severe conditions which are subject to precipitation or have excessive wear because of their design or available fuel. Suitable as motor oil in large crosshead engines with oil-cooled pistons.	New Sulzer Diesel
high-speed engines		
i-SigmaPerformance E 15W-40	Long-drain multigrade oil (S.H.P.D.) for supercharged diesel engines operating under severe duty. The detergent/dispersant properties are confirmed by the compliance with the severe requirements of ACEA E7/E5 and API CI-4/CH-4 specs. The pistons are kept exceptionally clean while solid combustion products are held in suspension, thus preventing the formation of harmful deposits.	API Service CI-4/CH-4/SL ACEA E7, E5, E3, B3 MB Approval 228.3 MAN M3275 MTU Type 2 DEUTZ DQC III-05- DEUTZ DQC III-10 VOLVO-VDS-3
LDA 40	Lubricant for high-output motors. It is formulated from a high Viscosity-Index and low pour point. The paraffinic base stock is treated with a high percentage of additives to impart outstanding detergent, dispersant, antioxidant, anticorrosion, antiwear and antifoam properties. Zinc free.	API CF General Electric Generation 4 - Long Life "Fundamental approval" EMD "WOFT - Worthy of full scale field test" LMOA Generation 5

refrigeration compressor oil

product	description	specifications
Betula 32, 46, 68	Mineral oils formulated with special naphthenic base appropriately refined, intended for lubrication of refrigeration compressors (reciprocating and vane) of the hermetic domestic type, of industrial units or of heat pump systems using all types of refrigerant (ammonia, Freon 12, Freon 22 etc.; except those using S02).	ISO-L-DRA ISO-L-DRC DIN 51503 KC DIN 51503 KA SABROE (0170-104-EN - M group)
Betula S 32, 46, 68, 100	Oils formulated with special synthetic base (PAO), intended for lubrication of refrigeration compressors (reciprocating, rotary-screw and vane) of the hermetic domestic type, open and semi-sealed industrial units for refrigeration, or heat pump systems using all types of refrigerant (ammonia, Freon 12, Freon 22 etc.). They may also be used in other equipment and machinery operating at very low temperatures.	ISO-L-DRA ISO-L-DRC DIN 51303 KA DIN 51503 KC SABROE SULZER (ISO 100)
Betula ESX 32, 46, 68, 100, 150	Products intended for lubrication of compressors (reciprocating, rotary-screw and vane) of hermetic domestic type, open and semi-sealed industrial units for refrigeration, air conditioning systems and heat pump systems where HFC refrigerants are used (R134a, R404a, R407c, R507). Good lubricating properties overcome wear problems in the moving parts of machinery in which the oils are used.	ISO-L-DRE

FAST oil analysis

Used-oil analysis plays an important role in preventive maintenance of engines and equipment. To help customers integrate this practice in their daily operations, Eni provides a full analysis service thanks to its collaboration with a specialized independent laboratory. The analysis measures the following parameters:

- Condition of the oil
- Pollution of the oil
- Level of wear

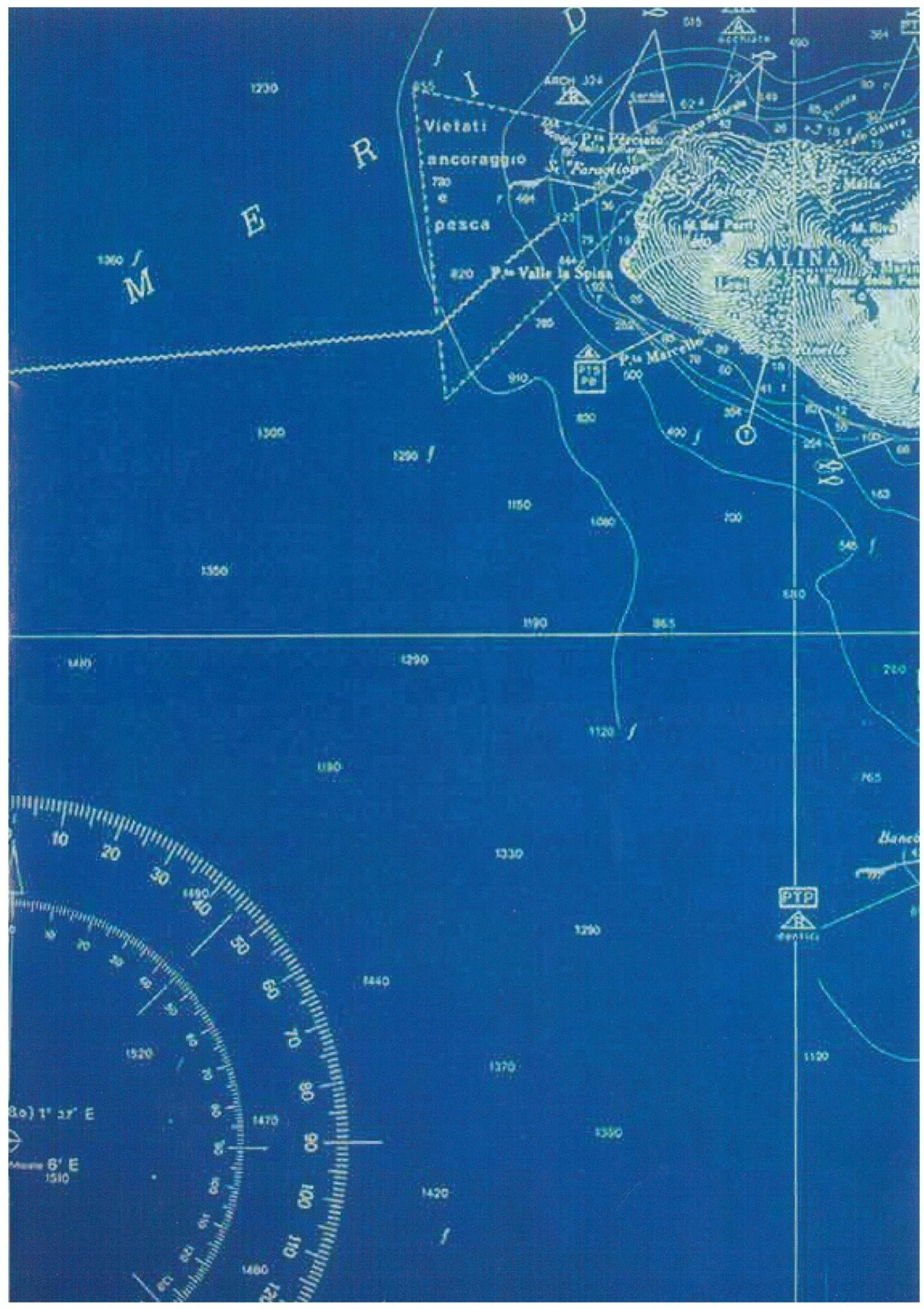
By performing the used-oil analysis on a regular basis, you will increase the engine or equipment life, optimize the oil change intervals and get the insurance that both mechanics and lubricants are in optimal state.

Benefits

- Reduced downtime thanks to regular diagnosis;
- increased equipment life and greater reliability which reduce the service costs;
- accurate results and an easy, reliable interpretation of the results;
- clear recommendations for your equipment performed by specialists;
- wear level benchmarked against similar equipment make/model;
- results delivered within 24 hours from sample reception;
- traceability of results for each engine/equipment available from the 3rd analysis onwards.

The used-oil analysis service includes:

- One analysis kit containing 6 sample bottles, 6 labels and 6 envelopes for returning;
- delivered to customer's address;
- direct access to website platform for distributors and key customers to consult/download reports;
- reports available in English and Indonesian;
- pre-paid analysis, to be used within 2 years;
- analysis available for engine oils





GANI

Manufactured / Imported by :

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