

= SMS Greif =

SMS Greif was an aviso built by the Imperial German Navy ( Kaiserliche Marine ) , the only ship of her class . She was built at the Germaniawerft shipyard in Kiel ; her keel was laid in 1885 , she was launched in July 1886 , and she was commissioned in July 1887 . Unlike the other avisos built by Germany , Greif was equipped only with a gun armament . Greif served with the fleet from 1887 until 1911 , though she was not a particularly successful design and so saw little active service , having spent most of her time in reserve . In 1912 , she was reduced to a training ship for engine @-@ room personnel . In 1917 , she was hulked for minelayers in Kiel . She was ultimately sold for scrapping in 1921 in Hamburg .

= = Design = =

= = = General characteristics = = =

Greif was 99 @. @ 5 meters ( 326 ft ) long at the waterline and 102 @. @ 6 m ( 337 ft ) long overall . She had a beam of 9 @. @ 7.5 m ( 32 @. @ 0 ft ) and a draft of 4 @. @ 2.2 m ( 13 @. @ 8 ft ) forward and 4 @. @ 3.4 m ( 14 @. @ 2 ft ) aft . The ship was designed to displace 2 @, @ 50 metric tons ( 2 @, @ 120 long tons ; 2 @, @ 260 short tons ) , and at combat loading , she displaced 2 @, @ 266 t ( 2 @, @ 230 long tons ; 2 @, @ 498 short tons ) . Her hull was constructed with transverse steel frames and it contained twelve watertight compartments .

Greif was a mediocre sea boat and was moderately handy . She pitched slightly but rolled significantly more . Her transverse metacentric height was .48 m ( 1 ft 7 in ) . The ship had a crew of seven officers and 163 enlisted men , though the latter later increased to 178 . Greif carried several smaller boats , including one picket boat , two cutters , one yawl , and one dinghy .

= = = Machinery = = =

Greif 's propulsion system consisted of two horizontal 2 @-@ cylinder double expansion engines built by AG Germania , which drove a pair of four @-@ bladed screws that were 4 m ( 13 ft ) wide in diameter . Steam for the engines was provided by six cylindrical , double @-@ ended , coal @-@ fired water @-@ tube boilers split in three boiler rooms . In 1906 , she was reequipped with eight new cylindrical boilers in two boiler rooms , which slightly improved her performance . She was equipped with a pair of generators for electrical power ; they had a combined output of 20 kilowatts ( 27 hp ) at 67 volts . Steering was controlled with a single rudder .

The ship 's propulsion system was rated at 5 @, @ 400 indicated horsepower ( 4 @, @ 000 kW ) for a top speed of 18 knots ( 33 km / h ; 21 mph ) . On trials , Greif reached 5 @, @ 431 ihp ( 4 @, @ 050 kW ) and 18 @. @ 2 kn ( 33 @. @ 7 km / h ; 20 @. @ 9 mph ) . With the new boilers , her engines could reach 5 @, @ 795 ihp ( 4 @, @ 321 kW ) and 19 @. @ 1 kn ( 35 @. @ 4 km / h ; 22 @. @ 0 mph ) on speed trials . She could carry up to 350 t ( 340 long tons ; 390 short tons ) of coal , which provided a range of approximately 2 @, @ 180 nautical miles ( 4 @, @ 040 km ; 2 @, @ 510 mi ) at a cruising speed of 12 kn ( 22 km / h ; 14 mph ) . After her refit , she could carry 436 t ( 429 long tons ; 481 short tons ) of coal , which increased her range to 3 @, @ 960 nmi ( 7 @, @ 330 km ; 4 @, @ 560 mi ) at 10 kn ( 19 km / h ; 12 mph ) .

= = = Armament = = =

Unlike the other avisos built by the German navy , which carried torpedo tubes as their primary armament , Greif was armed only with guns . As built , the ship was armed with two 10 @. @ 5 cm ( 4 @. @ 1 in ) K L / 35 guns placed in pivot mounts . The ship was also equipped with ten machine guns . In 1906 , the ship was rearmed with eight 8 @. @ 8 cm SK L / 34 guns in single mounts and six machine guns . Later in her career , two of the 8 @. @ 8 cm guns and two machine guns were

removed . Greif carried no armor protection .

= = Service history = =

The ship was laid down at the Germaniawerft shipyard in Kiel in 1885 and launched on 29 July 1886 . Fitting @-@ out work followed her launch , and was completed by 9 July 1887 , when she was commissioned into the German fleet . Following her commissioning , Greif served with the active duty fleet , though she saw little service , as she was an unsuccessful design . In 1897 , Greif was assigned to the II Division of the Maneuver Squadron for the annual summer training exercises in August and September . After the conclusion of the maneuvers , the II Division returned to its home port in Kiel for the winter . In early 1898 , Gefion returned to service in the II Division .

In August and September 1900 , Greif was assigned to the Maneuver Squadron during the annual summer training exercises . During the maneuvers , she served in the cruiser screen for the hostile squadron , along with the old frigate Carola . On 21 June 1911 , Greif was reduced to a special purpose ship for experimentation , and she was hulked on 25 October 1915 . She was thereafter used as a training ship for engine room personnel . In 1917 , she was converted into a hulk for minelayers and based in Heikendorf outside Kiel . She served in this capacity for the last year of World War I. In 1921 , she was sold for scrapping and broken up in Hamburg .