

CSSC

CPGC—中船海洋动力技术服务有限公司
CSSC MARINE SERVICE CO., LTD.

Company Introduction

CSSC Marine Service Co., Ltd.

CMS



Company Profile

Professional Service Company Within CPGC



Registered on January 23, 2017 (1Billion RMB)



Registered in Yangshan Special Comprehensive Bonded Zone, Lingang New Area, Shanghai



Shanghai High-tech Enterprise



Company History

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1928

"Shanghai Moller Shipbuilding Factory" was predecessor of HHM

1978-1980

Medium-speed engine technology, Sulzer low-speed diesel engine and B&W technologies were introduced.

1998

HHM was listed on the stock market

2008

Spare Parts Branch of HHM was established.

2014

WinGD was acquired by CSSC Group.

2017 ★

CSSC Marine Service Co., Ltd. was founded.

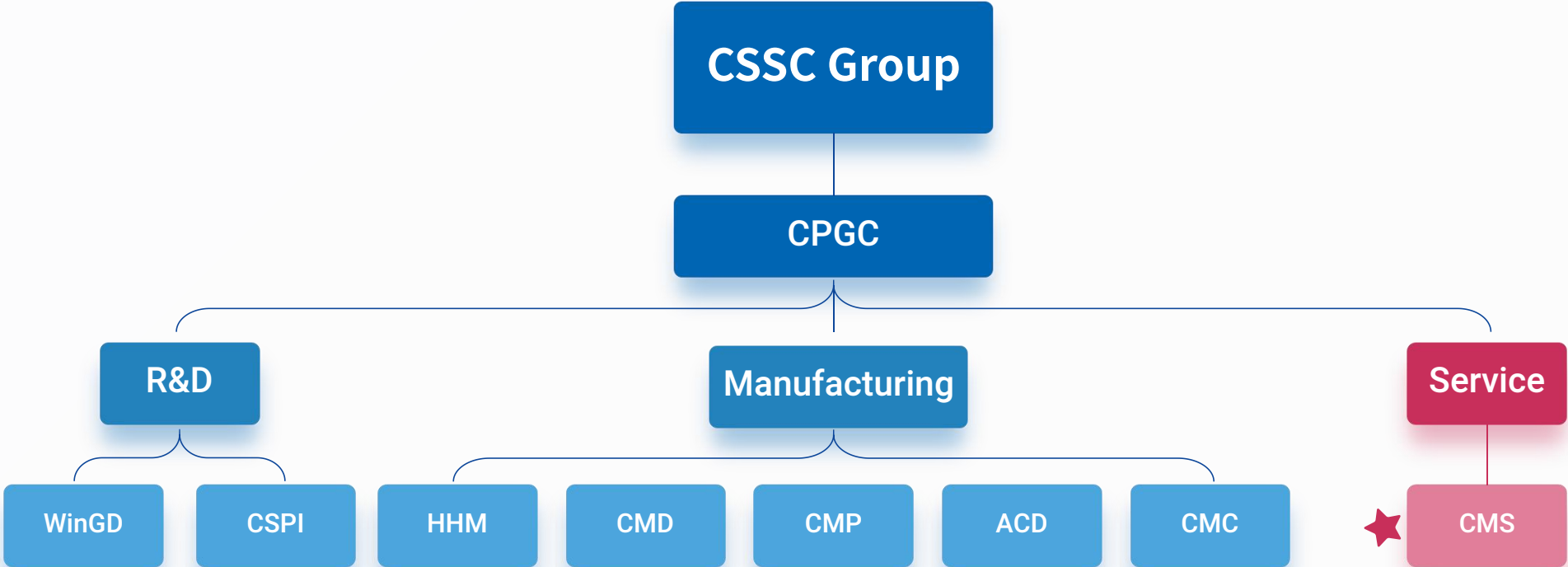
2020

CPGC was founded.



CMS

Organizational Structure



Business Scope

Main businesses

Spare parts and technical services

Business scope

MAN and WinGD two-stroke low-speed engines built by CPGC (eg: HHM, CMD) and other self-owned brand products.

Licensee

WIN GD

MAN
MAN Energy Solutions

Engine maker

CSSC
CPGC—沪东重机有限公司
HUDONG HEAVY MACHINERY CO., LTD.

CSSC
CPGC—上海中船三井造船柴油机有限公司
CSSC-MES DIESEL CO., LTD.

CSSC
CPGC—中船动力镇江有限公司
CSSC MARINE POWER ZHENJIANG CO., LTD.

CSSC
CPGC—安庆中船柴油机有限公司
ANQING CSSC DIESEL ENGINE CO., LTD.

Company Mission

CSSC
CPGC—中船海洋动力技术服务有限公司
CSSC MARINE SERVICE CO., LTD.

Promoting the synergistic development of R&D, manufacturing and service

Providing customers with world-class

Life-time service, Versatile solutions



CMS

Global Service Network

Service Station

Service Partner

Asia

China

- Shanghai
- Shenzhen
- Jiangyin
- Qingdao
- Zhoushan
- Taiwan

Singapore

- Singapore

Korea

- Busan

Qatar

- Doha

- U.A.E.
- Japan

Europe

Germany

- Hamburg

- Poland

- Turkey

North America

- U.S.A.
- Panama

South America

- Brazil

Africa

- South Africa



Global Supply Chain

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01 Emergency supply at global major ports



Shanghai bonded
/non-bonded
warehouse



Europe
(Planning)



Singapore
(Planning)

02 Multi-mode/full coverage

General trade exports

Domestic non-bonded/
bonded ship supply

Bonded entrepot trade

Offshore trade

CMS

Three Major Advantages

01



Integration

It makes full use of the resource advantages of R&D, manufacturing and service integration within CPGC.

02



Specialization

Among domestic and foreign customers, HHM, CMD and WinGD brand recognition is high.

03



Globalization

The global service network has begun to take shape, with 24/7 service, rapid response and timely solutions.

Service Team

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Service Engineer Team
Professional, Efficient,
Experienced



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Spare Parts

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> Warehouse

 **8000+**
m²

 **32000+**
types

 **235+**
mRMB

> Key engine

- X/DF
- Rtflex
- ME-C/LGIP
- ...



> Key product

- Cylinder liners
- Piston ring
- Nozzle needle couple
- Bearing
- Fuel injection control unit
- Plunger couples
- Top cover assembly
- Piston head
- Exhaust valve stem



Service Type - Retrofit

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WinGD W-X engine dual-fuel retrofit

LNG/methanol/ammonia injection system and dual-fuel control system can be added.



MAN ME-C engine LGIP dual-fuel retrofit

LPG injection system and dual-fuel control system can be added.



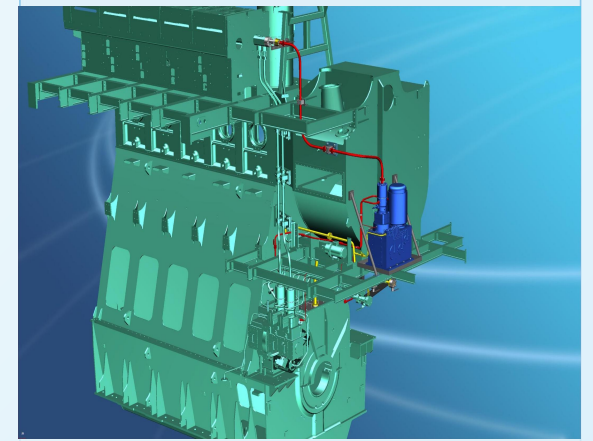
Independent hydraulics system retrofit

Reduce the failure rate of hydraulic system components, improve operational stability, and reduce maintenance costs.



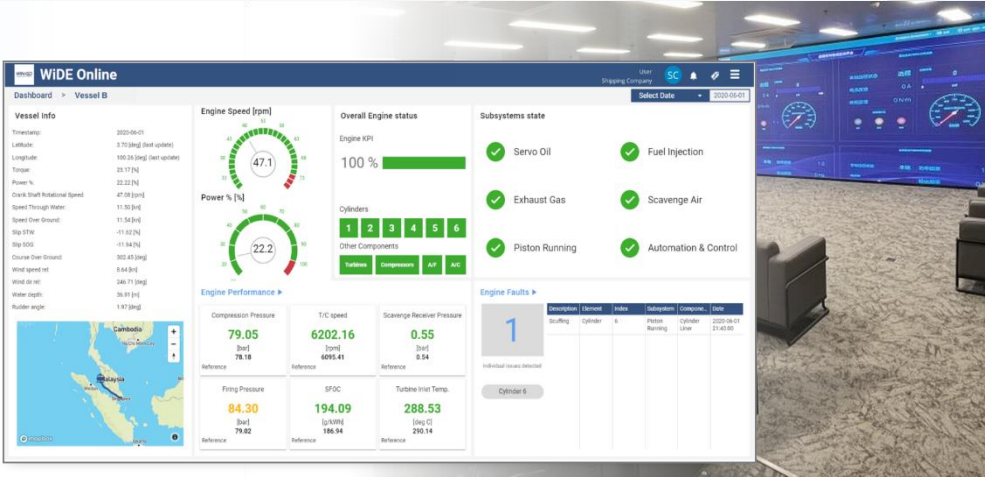
Fuel common rail booster pump upgrade

Solve start difficulties due to fuel system leakage.



01 Remote support

- > Remote technical guidance/ troubleshooting
- 24/7 support
- > WIDE remote support
- Shanghai WiDE monitoring room
 - Working with WinGD technical experts



02 Performance evaluation

- Sea trial
- Data collection
- Performance check report
- Performance evaluation
- Optimize performance
-



Service Type – Key Component Reconditioning

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01 Component reconditioning

> 1.1 Zhoushan/Shenzhen workshop

- FIVA Valve
- HPS Belt pump
- GAV Valve
- Flex-lub oil injector
- Injector
- Fuel pump

> 1.2 Outsourcing

- Exhaust valve stem
- Seat
- Piston head
- Cylinder head

02 Exchange of key components

Fuel pumps

Flex-lub oil injector

ICU/VCU

...



Solving common engine faults

Technical solutions and services

- Problems and failures of the main engine in installation, commissioning, mooring, sea trials and in the operation of the vessel



Service Type - On-site Overhaul

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On-site repair & processing



> Scope

- Crankshaft machining and repair
- Cylinder liner honing
- Fuel supply unit camshaft repair and replacement
- Overhaul of important moving parts
- Connecting rod and piston machining and repair

> Service process



Service Type – Engine Dry Docking

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MAN/WinGD Engine Dry docking

- Preflight
- Recommendation Report
- Preparation
- Program implementation
- Feedback



> Project

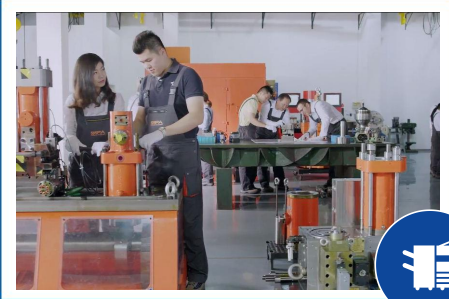
WinGD engine maintenance

- ICU/VCU
- FOP High-pressure fuel pump
- GAV Intake valves
- PCV Pressure control valves
- CAS angle encoder
- Injector

MAN engine maintenance

- FIVA Valve
- HPS pumps
- The exhaust valve drives the pump
- Angle encoders
- Accumulators
- High-pressure fuel pump

TRAINING Content



W-X

Engine Operations

RT-flex

Engine Operations

ME-C

Engine Operations

Remote control system

SAM KONGSBERG

Service Type - Full Maintenance Agreement

> Agreement content

- On-board OPI inspections
- WiDE Report
- Technical support
- Original spare parts

> Benefits

- Ensuring normal operation of main engine
- Improving operational reliability
- Saving maintenance and management costs

Report display



Service Type - Full Maintenance Agreement

Information feedback



Engine checklist

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Operational Performance Support (OPS) - 400000		Engine Inspection	
Inspection Item	Work to be carried out	Results	Remarks
Piston Under-side Inspection	Check the condition of piston rings through cover glass or parts. Check condition of oil pan through cover glass or parts. Check condition of oil pan (Cleaning of space by crew). Check status for free passage. Check the condition of M/R (Top).		
Gearwheel	Visual Check of all gearwheels.		
Crankcase	Visual inspection (Pump/Injector/particular, oil/air, any abnormality).		
Turbocharger & Fuel/air	Visual inspection. Visual. Fuel/air, fuel/air, fuel/air.		
Supply Unit	Check the condition of supply unit (air/oil).		
Fuel Pump/Actuator	Check the condition of fuel pump/actuator (fuel/oil/gas).		
Turbocharger	Check air filter.		

Engine status check

Inspection and Maintenance of Top Bracing

Check & Testing of Level Switches

Inspection of Gearwheels

Inspection of Guide Shoe & Guide Rail

General

Inspection of SU Unit (POP, Actuator, Camshaft)

Check of Crank-Angle Sensors

Inspection of Foundation Bolts and Chock fast

Crankcase Inspection

Piston Head

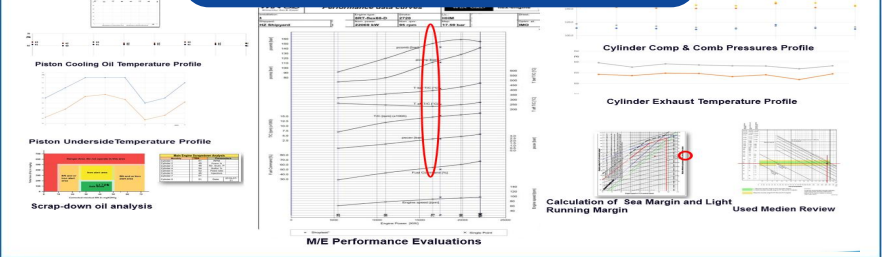
Piston Rings

Cylinder Liner

Piston Underside & Piston & Piston Ring Inspections

Check Results

Performance assessment



Develop/Implement

The next engine operation status boarding check service

Cycle

Service Type - Full Maintenance Agreement



Result record
Recording results of the performance evaluation

>

Maintenance based on the inspection results



>

optimization, upgrading, and transformation



CMS workshop maintenance/regular exchange of key parts



Engine maintenance at the terminal



Engine maintenance during dry docking



Contact Us

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CSSC MARINE SERVICE CO., LTD.



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