

Shanghai

Singapore

OTALL DUALS

STATUS STREET

A COMPANY OF

CONTACT US.

CHINA

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HYDRAULIC SOLUTION



Boeaman Technology Service Co., Ltd.

ABOUT US.

2015 Year Established: August 16, 2015



200000000 Yuan Captial: 20 million Yuan



Boeaman Technology Service Co., Ltd.

Boeaman Technology Service Co., registered in China and Singapore, provided professional technical service in marine industry, specializing in electronically controlled engines hydraulic pumps and FIVA/ELFI repair, maintenance and overhaul and relative maintenance.

Corporate Philosophy

To Provide Our Principals With Most Quality Services In All Respect Of Their Needs And Satisfaction.

Our Promises

Close communications with our valuable customers worldwide. Continue to expand our business to meet our customer's requirement. Reinforce our sense of ethics and highly transparent business activities. Value the environment and promote harmony with local communities.



BCEAKAN

FIVA OVERHAUL AND TEST

FIVA OVERHAUL PROGRAM







- Pilot valve calibration.
- Capable to test all kind of FIVAs.
- Calibrate inductive sensor and safety check.

	Deta	il data of calibrat	ion and function test	ing			
Cylinder No			Туре		FIVA II-60		
Serial No	056840–08–7		Parts No		5032039-	5	
New Pilot Valve	Yes		New inductive sensor			Yes	
Oil temperature	Reference value	42 °C±1 °C	– Oil pressure	Refe	rence value	250±1bar	
Oir temperature	Measured value	42 °C		Meas	sured value	250 bar	
Flow rate	Reference value	30±0.2L/min	– Zero adjustment	Refe	rence value	12.20±0.01mA	
Flow rate	Measured value	30.00 L/min		Meas	sured value	12.20 mA	
The amount of internal leakage of original pilot valve.					3.9 L/min		
The amount of internal leakage of whole valve set with original pilot valve.				0.8 L/min			
The amount of internal leakage of whole valve set with new pilot valve.				3.7 L	3.7 L/min		
Output signal from inductive sensor in both extreme positions					4.71 mA / 19.10 mA		
Output signal of default position (on loss of pilot valve command signal)					19.21 mA		
Output signal stamped on the name plate (original)				11.4	11.42 mA		
Output signal from new inductive sensor when calibration rod is mounted					6 mA		
Result:	Overhaul, Maintenance, and Calibration. Working fine with new pilot valve and sensor.						
Result:	Function Testing is acceptable.						



Maintenance Plan for FIVA valves					
		5 years	10 years		
1	Pilot valve	Inspection & Calibration	Exchange		
2	Stroke sensor	Inspection & Calibration	Exchange		
3	Main valve	Overhaul	Overhaul		

FIVA Overhaul Workshop in Shanghai and Singapore

- Exchange Program
- Trouble Shooting

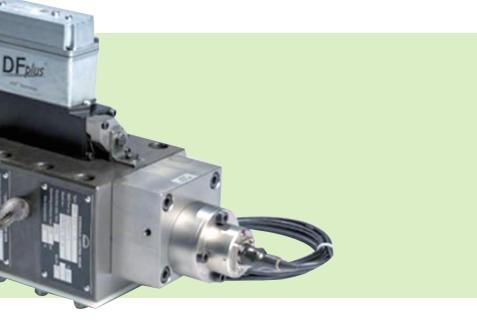


Work Scope

Report

Function test

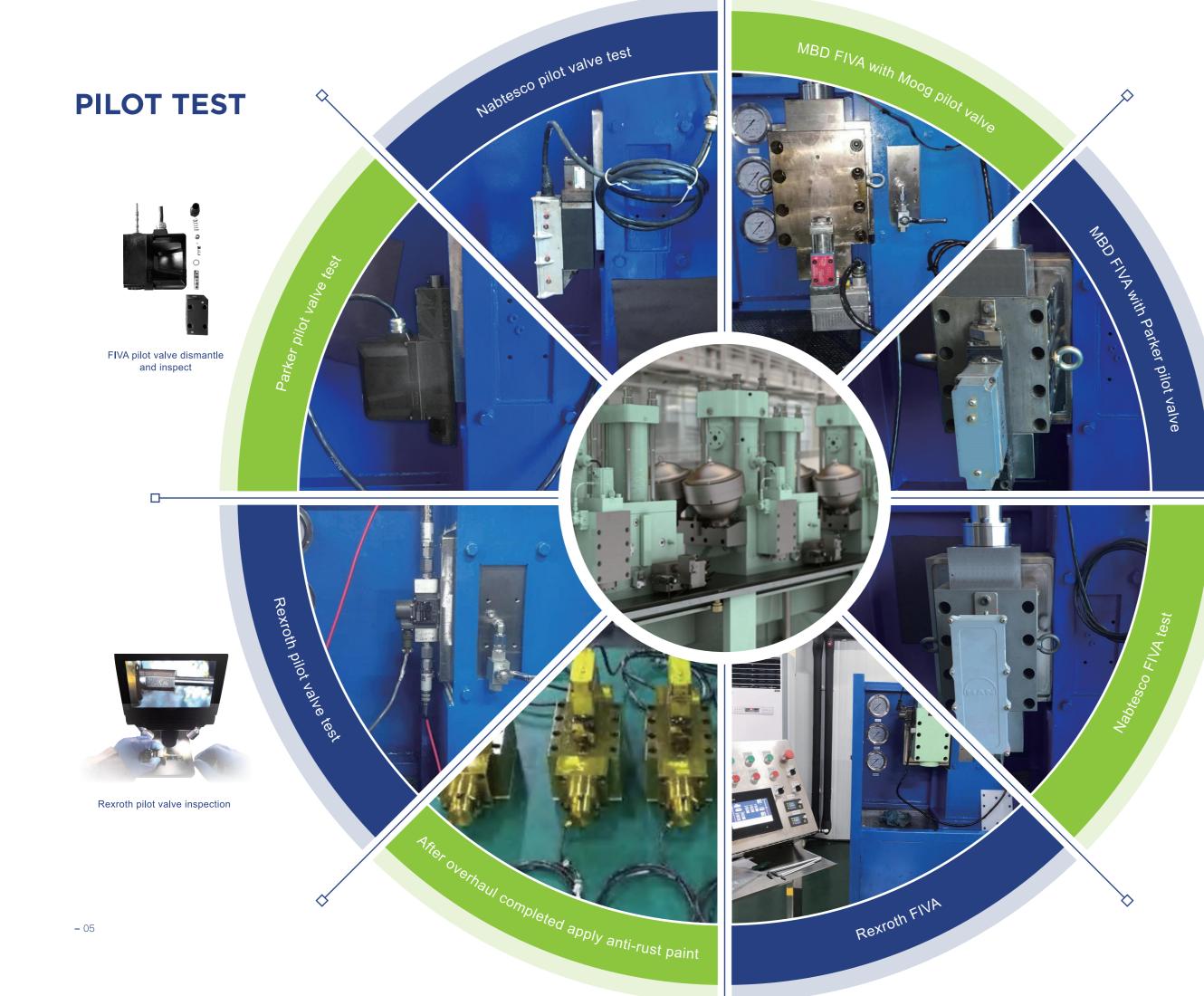






Cleaning and inspection of the valve housing and main spool.

- Replacement of control valve and repair kit by original parts for FIVA
- Replacement and calibration of the feed back sensor







FIVA dismantle and inspect

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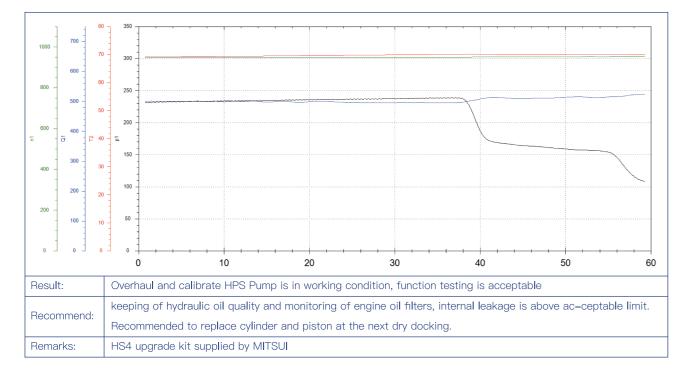
HPS PUMP TEST BENCH

HPS PUMP OVERHAUL PROGRAM

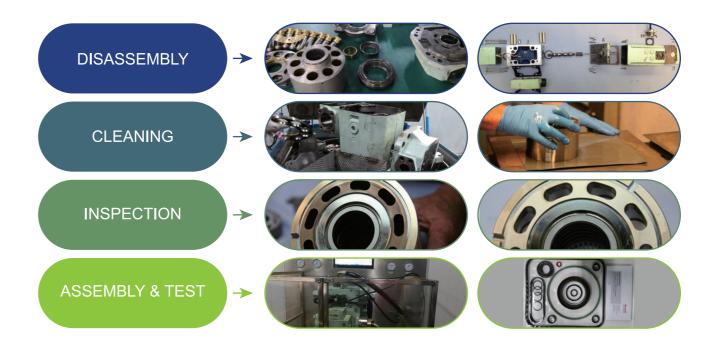




- Simulate engine running condition via control proportional valve during pump testing.
- Carry out pump testing up to 750L/mins capacity.
- Calibrate inductive sensor and safety check.
- Graphic display.
- Workable for Dynex, Bosch/Rexroth and Parker pump.



Pump	Prop.
Disassembly	Disassembly
Cleaning	Cleaning
Replacement of gaskets and O–rings	Replacement o
Reassembly	Reassembly
Test and report	Test





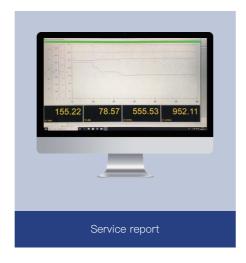


. Valve	
of O <mark>-</mark> rings	

Reporting

Overhaul documented including testing report











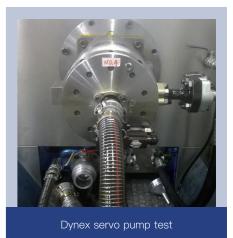




A4VSO750 HS4E Rexroth HPS pump test





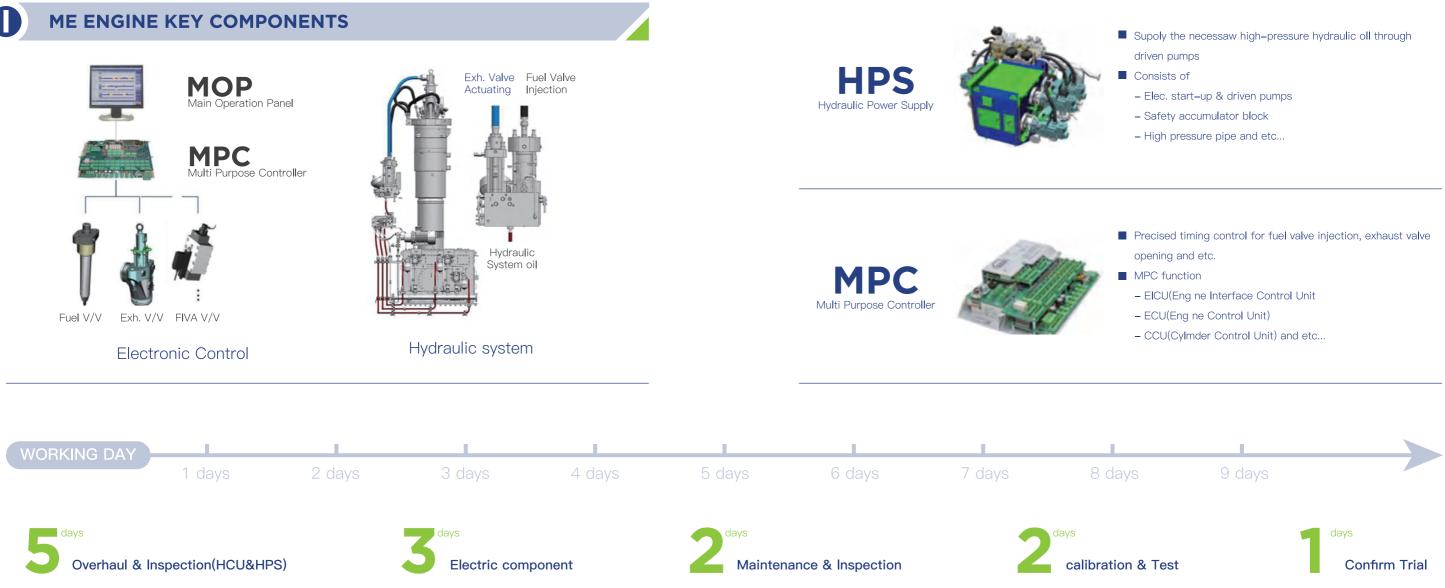


ELECTRONICALLY CONTROLLED ENGINE OVERHAUL PROGRAM



2 **ME ENGINE ELECTRICAL AND HYDRAULIC SYSTEM**







- Deliver the hydraulic oil to each cylinderso as to actuate
- the fuel and Exh. valve
- Consists of
- Fuel oil booster unit
- Exh. valve actuator
- FIVA valve and etc...

ELECTRONICALLY CONTROL ENIGNE OVERHAUL PROGRAM



HCU (HYDRAULIC CONTROL UNIT)

- Overhaul for FIVA valve units & lubricating system.
- Overhaul of exhaust actuators & fuel booster units.
- Replacement repair kit for accumulators & re-fill of Nitrogen.



32,000 R/H

2













Accumulator 32,000 R/H

FIVA valve 32,000 R/H

32,000 R/H

HPS (HYDRAULIC POWER SUPPLY)

- Inspection auto filter for hydraulic system.
- Inspection of injection nozzle for chain case & gear case.
- Re-adjust of safety valve setting pressure and operate function.
- Pressure build up time test of hydraulic system.
- Check for leakage of all hydraulic line & units.
- Replacement of hydraulic hoses & proportional valve for driven pumps
- Replacement repair kit for accumulators & re-fill of Nitrogen.



Accumulator block

32,000 R/H



Hydraulic hose

32,000 R/H





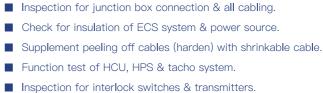
Accumulator 32,000 R/H



Compensato 32,000 R/H

FUNCTION TEST

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Binding check for all cables.

MECHANICAL/PNEUMATIC SYSTEM

- Inspection of gear tooth condition and re-tightening work of chain
- Overhaul of main starting valve.
- Replacement repair kit for pneumatic valves.
- Replacement repair kit for accumulators & re-fill of Nitrogen.





Pneumatic system 32,000 R/H

Chain re-tighten 4,000 R/H

6 **ELECTRONIC COMPONENT**

- ECS parameter for each value and performance curve.
- Telegraph re-calibration on E.C.R & L.O.P
- Check of alarm history in event log on M.O.P
- P.M.I & Cocos EDS system check
- Check of ethernet system for monitoring system





Electric contorol panel 32,000 R/H

32,000 R/H

- 13



Cylinder lubricator 32,000 R/H

Distributor block









Chain tightener 4,000 R/H



Guide bar 4,000 R/H



Level switch 32,000 R/H



COOPERATIVE PARTNERS

for spare part and service



ENGINE



C554





中国船舶工业集团有限公司 CHINA STATE SHIPBUILDING CORPORATION LIMITED







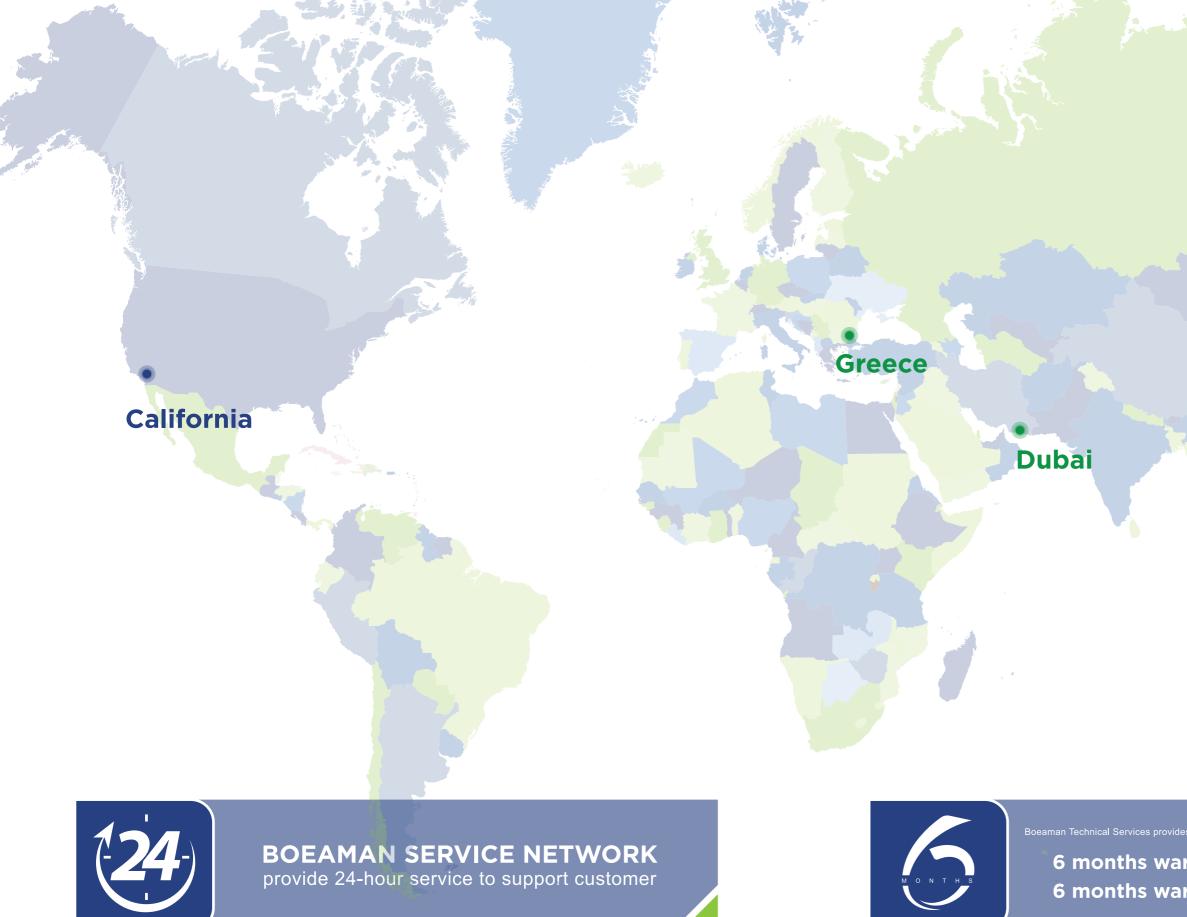




We commit to providing original or OEM spare part and fast shipping to our customers. We have various kinds of spare parts in stock:

- FIVA and Proportional valve (MBD, Nabtesco, Rexroth) Tacho encoder

■ ME engine components ■ Repair Kits for Alpha lub, fuel booster & exhaust actuator ■ Repair kit for Rexroth pneumatic valve ■ HPS pump and upgrade kits ■ Various sealing rings







Shanghai

Guangzhou

• Singapore

s warranty for its product,and it's secured by global service network.

6 months warranty for technical service6 months warranty for spare par