

BOP Handler: Hydraulic Systems and Controls Services

Service Summary

BOP handling systems are essential in delivering compete drilling services to you customers. According to API Recommended Practice 7L, bottom-supported handling systems for onshore drilling rigs should have *“all hydraulic pumps, motors, power cylinders, piping, valves, and other system appurtenances shall be inspected, and repaired or replaced at certain intervals to minimize leakage and ensure reliable operation..”* Replacement of flexible hose assemblies should be performed at 5 year intervals or sooner depending on condition revealed after regular inspections.

Details of Service

The goal of this service is to provide a means for Hydraulic Systems’ customers to capture the full life cycle usefulness of their equipment by ensuring maximum performance through proper rebuilding and refurbishing.

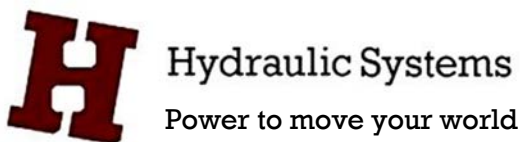
All equipment, whether abused or pampered, reaches a point in its lifecycle where it needs attention. This is where decisions are critical shortening or extending the equipment’s time in service. Hydraulic Systems’ experienced technicians provide “womb-to-tomb” services to keep you equipment working when you need it.

SERVICES OVERVIEW

Features	Benefits
Custom designed services	Highly flexible plan adapts to the dynamic conditions of each rig and customer.
Trained and Certified Service Professionals	Ensures that hydraulic systems services are performed to best industry practices.
Refurbish/Rebuild	Designed to identify and address potential problems and implement services to bring the equipment back to condition to meet API 7L Recommended Practice.
Field or Shop Services	Depending on our customer’s needs and the extent of services requested, we can provide both field and shop services to keep or bring the BOP handler up to performance expectations.

SERVICE DETAILS

Activities	Description
Assessment	Trained hydraulic technicians will develop a detailed scope of work including hydraulic system, electrical controls, corrosion prevention, and structural integrity.
Protections Services	Hydraulic technicians will provide industry accepted corrosion and protection services.
Rebuild and/or Replace	Depending on the assessment, our technicians will rebuild and/or replace parts and equipment that are determined necessary for the safety and proper function of the BOP handler. We prefer to use OEM parts when available to maintain the equipment’s operational integrity.



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Wrangler BOP Handler Before Refurbish Services



Wrangler BOP Handler After Refurbish Services



Assumptions

Customer satisfaction is Hydraulic Systems' top priority. This includes timely, accurate, and complete delivery of services. To provide a superior level of service, Hydraulic Systems makes the following assumptions when developing a price quote and setting the expectation of service delivery:

1. A means to gain entry to and from the rig location (badges, escorts etc.).
2. Ability to bring tools and transportation assistance products to the site.
3. Use of some power tools may be necessary (Hydraulic Systems technicians will keep distractions to a minimum).
4. Technicians will have access to work stations to complete service steps.
5. Service will be provided during normal weekday business hours on a 5x10 basis unless otherwise noted.

Scope of Responsibility

Hydraulic Systems Scope of Responsibility

- Schedule qualified technicians to perform service.
- Ensure inspection is per Hydraulic Systems and drilling contractors' specifications.
- Conduct work in a timely manner.
- Identify any open issues.
- Provide a service point of contact to the customer.

Customer Scope of Responsibility

- Provide an authorized point of contact to the Service Team for scheduling and onsite coordination.
- Notify Hydraulic Systems Service Team of any special issues affecting their visit to the site.
- Make dates available for scheduling of service.
- Provide a point of contact at completion for sign-off and acceptance.
- Identify any related work impacting service delivery.

Other Services

Hydraulic Systems offers the following services, which can be integrated with the Inspection, Rebuild, and Refurbish Services:

- To be determined according to drilling contractor's requests

Pricing

Pricing for this service is available on an order by order basis. A pre-quote consultation and/or walk-through by a Hydraulic Systems Service Team member is advised to determine the scope of services. Changes in the product set or changes in the assumptions or detail of work after the original scope of work is set may require a new quote or a new purchase order for single instances. Contact your Hydraulic Systems Account Representative for a quote according to your specific requirements.

Terms and Conditions

Standard Hydraulic Systems Terms and Conditions apply. Available in the sales quote package, at www.hsi-power.com, or by contacting your local Hydraulic Systems Account Representative.