



Audit Visual only DS 510-C Bolter

Audited By	Andrew Irving	Date	7/6/2023
Customer		Site	
Machine	DS 510	Serial No	109B17536-1
Model	DS510-c	Year of Manuf	2009
Engine hrs	1606.1		
Compressor hrs	2345		
Percussion hrs	1. 893	2.	

Main Components	Type	Serial no
Drifters		
1.	HL 510	VO35053
2.		
Compressor	CT 10	
Engine	Merc 904	
Carrier	TC 7	
Booms	ZRU	
Feeds	Bolting feeds	
Power	400 volt	

Engine	Checked
Check Engine oil level and condition	Level High oil milky
Check radiator condition and coolant level (transmission coolers also)	OK
Check all coolant hoses and clamps condition	OK visual
Check exhaust manifold condition, bolt tensions and exhaust lagging	OK visual
Check inlet hoses, clamps and pipes	OK visual
Check turbo charger secure and signs of damage	OK visual
Check all V belt tensions, conditions and idler bearings	OK visual
Check engine mountings	Not checked

Check radiator shroud and guards are secure		OK visual
Check fuel lines are secure and not leaking (Type)		OK visual
Check oil and fuel filter mountings		OK visual
Check and record oil pressure Idle Full RPM		Not checked
Check for loose bolts and misc damage		Not checked
Check drain plug condition :		Not checked
Check breather		Not checked
Faults	Engine oil Milky possible water	

Operators Compartment		Checked
Check general condition		GOOD pic attached
Check seat and cover		Good
<p>Check function of all gauges, warning lights and switches</p> <input type="checkbox"/> Engine oil pressure <input type="checkbox"/> Engine temp <input type="checkbox"/> Transmission temp <input type="checkbox"/> Voltmeter <input type="checkbox"/> Hour meter <input type="checkbox"/> Tacho <input type="checkbox"/> Ignition switch <input type="checkbox"/> Park brake indicator <input type="checkbox"/> Service brake indicator <input type="checkbox"/> Front lights <input type="checkbox"/> Rear lights <input type="checkbox"/> Park lights <input type="checkbox"/> Brake lights <input type="checkbox"/> Horn <input type="checkbox"/> Park brake reset switch <input type="checkbox"/> Pre heat indicator		<p>All working</p> <p style="text-align: center;">ALL OK</p>



<input type="checkbox"/> Wipers <input type="checkbox"/> Washers <input type="checkbox"/> Radio <input type="checkbox"/> Condition of signs and decals <input type="checkbox"/> Operation of doors and latches	All OK	
Check cab mounts		OK
Check neutral start switch		NOT checked
Check air conditioner and fan operation		OK
Check FOPS ROPS certification		Yes but old
Check all window glass seals		OK

Right Drilling and Boom Controls		Checked
Check the control panels for leaks		OK
Check the function and condition of the boom control levers		OK
Check the operation of all drilling controls and record pressures <input type="checkbox"/> Percussion <input type="checkbox"/> Rotation <input type="checkbox"/> Feed <input type="checkbox"/> Auto returns <input type="checkbox"/> Water flushing <input type="checkbox"/> Air flushing <input type="checkbox"/> Collaring <input type="checkbox"/> Reaming		UNABLE TO TEST NO POWER
Check the condition of the hosing to the control panels		OK
Check the hosing to the hydraulic tank and the return filter housing		OK
Check the percussion filter housing for damage and leaks		OK



Air and Water Circuits	Checked
Check the condition and operation of the water pump	No Power
Check the operation and condition of the water pressure reducing valve and mud separator	No Water
Check the operation and condition of the compressor	Only diesel
Check the air max pressure setting	No Power
Check the operation and condition of the shank lubrication to both booms	No power

This was a **visual** inspection only if a complete inspection and test run is required a generator will need to be sourced so the rig can be powered up.

General condition:

Overall, the condition of the drill is very good with only some minor dents in some of the panels, but for a drill of this age it is minor.

The inside of the Cabin is excellent with all switches working bar the hand throttle

TESTING:

All boom movements working with no excess play in any of the cylinder's pins or clevis seen.

Zoom tube adjusted with no play.

Hosing looks ok but no doubt will blow some when working due to the age of the hoses,

No Major leaks seen

Some cylinders have light surface corrosion two (feed extension have bad corrosion and will need to be replaced.

Man basket boom all working

All function that could be tested on Diesel:

Drifter feed (drifter not hosed up)

Spanner feed and rotation (slight leak from spanner)

Rail indexing

Resin injector nozzle

Bolt Carousel (carousel missing bolt retaining clips)

Only one of the feed functions did not work this was the bolt grippers to extract a bolt from the carousel all other function working

Possible Faults

Milky engine oil

Bolt grippers not removing bolt from Carousel (maybe sized and will probably work on Power)

Damaged handrail on man basket

Compressor Temp gauge damaged

Hand throttle not working

R/H side step damaged (broken flexible mount)