Description
STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS
X928599 300GLC Excavator 4755 1FF300GXJFF730219
300GLC
** Buy parts online and view your invoices at RDOequipment.com/account.
Create your FREE RDO Account today!
SEGMENT# 1 C RU601 RDO-070-DIAG 03/22/24 03/22/24
HYDRAULIC DIAGNOSTICS
CONDITION:

-Customer states the hydraulic functions are weak and the bucket curl function doesn't work
CORRECTION:

Went and looked at the bucket settling and found the cylinder was passing internally.
After replacing the cylinder on segment three, the customer approved replacing the main relief and getting the hydraulic pressure settings all back into spec.
Replaced the main relief valve.
Test run and found it came preset so I turned it in half a turn to raise the main relief and allow me to check the circuit relief valve settings.
Checked and set all circuit relief valves to the top end of spec with the exception of boom down since I had no way of putting the boom all the way down at the shop.
Once the circuit reliefs were set, I then adjusted the main relief back to the top end of spec, followed by the power dig relief setting.

Topped the hydraulic tank off.
****RU601***
Went out and replaced damaged hose on right side for bucket
cylinder. Operated machine and checked hydraulic fluid.
Checked over for leak.

CONTINUED ON PAGE 02

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4755	1FF300GXJFF730219		

LABOR

SEGMENT TOTAL==>

SEGMENT# 2 C BC601 10-070-290 03/22/24 03/22/24
BUCKET CYLINDER, R&R & RECONDITION
CORRECTION:

Brought the machine into the shop and positioned to have
the bucket cylinder resealed.
Replaced the pressure.
Supported the cylinder and removed the rod pin.
Disassembled the rod and found the piston, and barrel
damaged, and the rod bent.
Called the customer over to look at it, he had me price a
new cylinder while he called around to hydraulic shop to
see about fixing this one.
Dakota Fluid Power in Rapid City said they could fix the
old one for less money and to bring it out.
I loaded it on a pallet and secured it with wire.
The customer came over and got it and took it out there.
The next day Dakota Fluid Power called the customer back
and quoted them a price to fix it, it was only $100 cheaper
than a new cylinder so the customer told me to order the
new cylinder.
Once the new cylinder arrived I installed it.
Went to replace the damage hose, but found it was the wrong
hose so I had the parts department order the correct hose.
Once the correct hose arrives I will go replace it.
I then connected the hoses.
Greased the pins.
Took the machine outside and test run checking for leak, no

CONTINUED ON PAGE 03

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4755	1FF300GXJFF730219		

leaks were found on it at this time.
FYA00004934 Pressure Relief 1 N

	Pressure Relief Valve		
FYA00033065	Filter	1	
SPEC HANDLING	fya00004934	1	
	1Z6516890171207881 1Z6516890171207694		
SPEC HANDLING	fya00006595	1	
	1Z6516890171207881 1Z6516890171207694		
SPEC HANDLING	FXB00000632	1	
	UPS: 1Z5704E80141187312		
SPEC HANDLING	SPEEDEE	1	
	4628537 SP010586031002403357		
TY27845	5GA HITACHI OIL	1	
T59014	O-RING	1	
T76938	O-RING	2	
4634166	HYDRAULIC HOSE	1	N
	PER STOCK ORDER THEN SHIP SPEEDEE TO BOTTOM LINE WELDING		
9309808G	Cylinder	1	A
966993	ORING	2	

PARTS

LABOR

SEGMENT TOTAL==>

****** WORK ORDER TOTALS ******

CONTINUED ON PAGE 04

STK#/FLEET#		PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	1FF300GXJFF730219		

PARTS

LABOR

TOTAL DUE RDO

13895.92

Description
STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS
X928599 300GLC Excavator 4659 1FF300GXJFF730219
300GLC
* Buy parts online and view your invoices at RDOequipment.com/account.
SEGMENT# 1 C BC601 RDO-020-DIAG 01/18/24 01/17/24
ENGINE DIAGNOSTICS
CONDITION:

-Customer states there is a DEF Circuit Fault
CORRECTION:

Arrived at the machine and found it had an active 4366.18
DEF tank insufficient heat fault.
Checked the DEF tank and found the DEF still frozen.
The customer hauled the machine to the shop.
I brought it in and checked the coolant hoses to the DEF
header. I found the coolant lines cold.
I removed the tool box and housing over the DEF tank.
I then performed a DEF coolant valve test in Service
Advisor to verify the coolant valve was opening and it was.
I then followed the coolant lines back and found a coolant
filter.
I found the coolant hose hot before the filter but cool
after the filter.
This tells me the coolant filter is blocked and the coolant
is not circulating.
I then blocked the coolant flow to the filter and removed
it.

I took the filter apart and found it plugged.
I cut the filter element out of the housing and put it back together.
I installed the housing and released the coolant to it.
I test run the machine.

CONTINUED ON PAGE 02

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

The coolant was now able to flow through the DEF header and thaw the DEF in a short amount of time.
I cleared the codes and ran a DEF system test, it passed successfully.
I then put the DEF tank cover and tool box back on the machine and parked it outside for a cold test run the next morning.
The next morning I started the machine, the coolant warmed up enough to thaw the DEF right away.
The customer came and got the machine and put it back to work.
A few days later the customer called stating that the machine was now throwing a ECU 4334.01 DEF dosing pressure extremely low code and derating.
I stopped by and found the DEF system pressure at zero.
While looking into the code and performing Service Advisor tests the code went away and the system was working again.
I performed the DEF system test, it passed successfully.
I told the customer to call if it acted up again.
A few days later they called and stated that the ECU4334.01 code was back.
I went back to the machine and checked the DEF system pressure it was at zero again.
I checked to verify the DEF was thawed, it was.
I then checked to verify the header was not plugged, it was not.
I checked the DEF breather filter, it was not blocked.
I verified once again the DEF coolant valve was functioning correctly, it was.
I looked at the snap shot data and the only thing I could

CONTINUED ON PAGE 03

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

see out of the ordinary was that the coolant temp was not reaching operating temp.
I then replaced the thermostats on a different segment.
I cleared the codes and the DEF system was functioning correctly again.
The customer called back the next day and stated that the code was back again.

This time I ordered a new DEF dosing pump.
I cleared the codes and test run performing a DEF system
test, it passed successfully.
the customer then run the machine for roughly a weeks time
with no issues then called and stated that we now have an
ECU 4376.06 DEF dosing unit reversing valve circuit has
low resistance code coming up.
I stopped over and performed an ECU software payload update
that I found in DTAC regarding the code.
I cleared the code and had the operator test run the
machine, no codes came back at this time.

		LABOR	Internal
10401099	744A1D05	SEGMENT TOTAL==>	Internal

SEGMENT# 2 C BC601 10-020-160 01/18/24 01/23/24
DEF HEADER, R&R
CORRECTION:

Removed the tool box and housing from over the DEF pump
Removed the hoses and wire harness connector from the pump.
Removed the pump.
Installed the new DEF pump.
Connected the hoses and wire harness.
Test run the machine and checked for leaks, none found.

CONTINUED ON PAGE 04

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

Performed the DEF dosing system test, it passed
successfully.
Cleared the stored codes.
Put the cover and tool box back on the machine.
Hung out for a while and let the operator run the machine,
no codes came at this time.
Old pump part number DZ121771
Old pump serial number 23020510589
New pump part number DZ128068
New pump serial number 23061021248
ADDITIONAL DESCRIPTION:

Previous W/O: W49454
Previous W/O Date: 10/19/23
Failed Part #: DZ121771
Part Hour of use: 385
Failed/Function Area: 0534 Exhaust Aftertreatment
Failed Type Code: 21 Pressure Low
DTAC Case / Solution #:
Diagnostic Hours:

If Reman, Failed Serial #: PN: DZ121771 SN: 23020510589
New Serial #: PN: DZ128068 SN: 23061021248

CRDZ128068	DEF Dosing Unit	1-	Warranty	Warranty
DZ100304	Filter	1	Warranty	Warranty
DZ128068	DEF Dosing Unit	1	Warranty	Warranty
	DEF Dosing Unit Pump			
CRDZ128068	DEF Dosing Unit		Warranty	Warranty
SPEC HANDLING	SPEE-DEE	1	Warranty	Warranty
SPEC HANDLING	SPEEDEE	1	Warranty	Warranty
T77814G	O-RING	1 N	Warranty	Warranty

CONTINUED ON PAGE 05

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

PARTS Warranty
LABOR Warranty
10401099 10501005 SEGMENT TOTAL==> Warranty

SEGMENT# 3 C BC601 MULTIPLE THERMOSTATS/BLOCK HEATER 01/18/24 01/23/24
CONDITION:

The cooling system is not able to reach operating temperature
CORRECTION:

Drained the coolant into clean buckets.
Removed the hoses and lines from the thermostat housing.
Removed the alternator bracket bolt.
Removed the thermostat housing.
Removed the thermostats.
Cleaned the sealing surfaces.
Installed the new thermostats and housing.
Installed the alternator mount bolt.
Installed all hoses and lines to the thermostat housing.
The customer decided to install a block heater versus fixing the glow plugs at this time.
When I had the coolant drained to replace the thermostats, I installed the blocker heater and cord.
Filled the cooling system and test run.
Checked for leaks, none found at this time.
Current hrs 4659

AT73296	POWERCORD LONG	1
RE539167	COOLANT HEATER	1
RE554015G	THERMOSTAT	2 N

281.25

CONTINUED ON PAGE 06

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

LABOR

SEGMENT TOTAL==>

SEGMENT# 5 C BC601 RDO-070-DIAG 01/18/24 01/23/24
HYDRAULIC DIAGNOSTICS
CONDITION:

-Customer states there is a hydraulic leak on machine
CAUSE:

-Leak on main pressure hose from hydraulic pump to control valve
CORRECTION:

Arrived at the machine and inspected for a leak, found oil leaking from the main pressure hose between the rear hydraulic pump back of the control valve.
Got the part number and tried to find build spec, none available for this hose.
The customer wanted to see of I could get the machine running same day so I took the hose to Zanders, they didnt have the correct fittings.
Took the hose to Grossenburg Imp, they didnt have the correct fittings.
Took the hose to Butler Machinery, they on had one of the fittings.
I then called the customer and let him know I had to order the hose from Deere.
When the hose arrived, I took it back over to the machine and replaced it on segment 6.

LABOR

744A1D05 SEGMENT TOTAL==>

CONTINUED ON PAGE 07

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

SEGMENT# 6 C BC601 02163A005 01/18/24 01/23/24
HOSE-PRESSURE, MAIN HYDRAULIC PUMP TO CONTROL VALVE, REPLACE

CAUSE:

-Hose is leaking

CORRECTION:

Replaced the rear hydraulic pump to control valve pressure hose using new o-rings.
The customer has bulk oil and will fill the oil tank before putting the machine back into service

FF105906	Hydraulic Hose	1	N
SPEC HANDLING	FF105906	1	
SPEC HANDLING	966993	1	
966993	ORING	2	

PARTS

LABOR

744A1D05 SEGMENT TOTAL==>

****** WORK ORDER TOTALS ******

INTERNAL

PARTS Warr/Int

LABOR Warr/Int

SUB TOTAL==> Warr/Int

2894.14

CONTINUED ON PAGE 08

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4659	1FF300GXJFF730219		

Description
STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS
X928599 300GLC Excavator 4342 1FF300GXJFF730219
300GLC
** Ask about our $499 Winter Construction Equipment Inspections.
SEGMENT# 1 C BC601 03340A013 11/02/23 11/08/23
ARM BUSHINGS (ARM-TO-BUCKET LINK), REPLACE
CORRECTION:

Removed the bucket and brought the machine inside.
Cleaned the grease off of the bushing.
Removed the grease seals and bushing.
Cleaned most of the grease out of the holes and realized the holes were worn badly enough that the new bushing were very loose.
Called the customer over and showed him the issues and suggested welding the holes up and boring them back to spec.
He approved the repair so I had the portable line bore equipment hauled in from Sioux Falls.
The repair was competed on segment 4
Current hrs 4342

FF106008	Shim	6
FF110023	Shim	8
TH102445	SEAL	2 S
14M7277	NUT	4

3090167	PIN FASTENER	1	N
4089028	O-RING	4	
4435126	PIN FASTEN	2	
4443880	BUSHING	2	

10401099 SEGMENT TOTAL==>

CONTINUED ON PAGE 02

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

SEGMENT# 2 C BC601 STT-05 11/02/23 12/20/23
TRAVEL, ROUND TRIP
CORRECTION:

The first time I looked at the machine it was located at the customers job site in Ft Pierre a few blocks away from the Ft Pierre shop.

SEGMENT# 3 C BC601 03302A021 11/02/23 11/08/23
BUCKET OUTER LINK, REPLACE-2 SIDES
CORRECTION:

Removed the old damaged h-link.
Pressed the new h-link together.
Installed and shimmed.
Greased fittings.
Test run, no issues found.

4155351	PIN FASTEN	1	N
8084924G	Link	1	M
8084925G	Link	1	N

SEGMENT TOTAL==>

SEGMENT# 4 C BC601 RDO-080-110 11/02/23 11/08/23
MACHINING
CONDITION:

-Repair arm bushing bores
CORRECTION:

Removed the old seals and bushings.
Cleaned the grease out of the hole.

CONTINUED ON PAGE 03

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

Installed and found someone had already did some low quality repair work in the hole and had 5 bushing staked in there to take up the extra space.
Set up the boring bar and centered it using the tapper cones.
I then welded the boring bar bearings mounts to the arm.
Attempted to weld up the hole for line boring but it keep splattering due to grease running out of all the previous welding.
I called the customer and explained what was going on with it, he stated to do the best I could to get it back together.
I then used a torch and attempted to burned all the grease out of the previous welding.
I then finished welding up the bore.
I installed the boring bar bearings and set the bar up.
Completed the initial pass and found that more weld was needed.
Removed the bar and bearings.
Welded the bore up again.
Installed the bearings and set the bar up again.
I then bore the holes to size.
Removed the boring bar and pressed the bushing in using a hydraulic press.
Test fit the new pin, I was able to slide the pin in and back out by hand.
Installed the grease seals.
Once the bucket was modified, I installed it shimming it up and installing the new sealing rings.
Greased the pin and test run, no issues found at this time.

CONTINUED ON PAGE 04

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

LABOR

SEGMENT TOTAL==>

SEGMENT# 5 C BC601 03360B011 11/02/23 11/27/23
CROWD CYLINDER (COMPLETE), R&I & RECONDITION
CORRECTION:

Released the pressure from the arm cylinder.
Removed the hoses and plugged them.
Removed the rod pin.
Removed the rod from the barrel.
Using the cylinder bench I attempted to disassemble the rod, but was unable to due to not having the special tool.
Went to the welding shop and got a piece of steal so I could fabricate the correct tool to removed the piston.
Fabricated the wrench.
Disassembled the rod and piston.
Cleaned and inspected all components.
Replaced all seals, o-rings, and wear components.
Assembled the rod and piston torqueing the piston and nut to spec.
Installed the nut lock screw.
Installed the rod back into the barrel torqueing the fasteners to spec.
Installed the rod pin.
Connected the hoses using new o-rings.
Greased the pins.
Test run and checked for leaks, none found at this time.

FXB00002479	Bushing	1	
FXB00002480	Ring	1	N
FXB00018602	Seal Kit	1	N

CONTINUED ON PAGE 05

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

PARTS

LABOR

SEGMENT TOTAL==>

SEGMENT# 6 C BC601 RDO-080-106 11/02/23 11/08/23
MACHINING

CORRECTION:

Inspected the bucket that came on the machine and found
that it was going to take a large amount of work to repair
the pin holes.
I had the customer come look and explained the situation.
The customer decided to have different bucket modified to
fit the machine.
BottomLine Welding came over and got the bucket and
modified it.
Once the welding shop was done with the bucket I attempted
to install it.
I had to do a little more clearancing to make the bucket
fit.
I then installed the pins using new fasteners to lock them
in.
I greased the pins and test run the machine.

SPEC HANDLING	C304060	1
SPEC HANDLING	8084924g	1
TH102460	WASHER	3 N

SEGMENT TOTAL==>

SEGMENT# 7 C RU601 XX 11/02/23 11/08/23

CONTINUED ON PAGE 06

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

REPLACE HYDRAULIC OIL & FILTERS
CONDITION:

-Replace hydraulic oil and filters
-Customer supplied own hydraulic oil
CORRECTION:

Drained hydraulic oil and replaced hydraulic filters.
Filled system back up with hew hydraulic oil replace both
O-ring seals on top lids of tank. Ran machine and topped
off hydraulic oil.

FYA00033065	Filter	
97.57		
SPEC HANDLING	SPEEDEE	

SP010586033342364914
TH100679

TH100679	O-RING	1
	FILTER ELEMENT	1

SEGMENT TOTAL==>

SEGMENT# 8 C RU601 NA 11/02/23 11/08/23
CASE DRAIN HOSE, FINAL DRIVE
CORRECTION:

Removed couplers from both steel lines used emery cloth to clean the sealing areas installed both couplers new back onto the lines and torqued to spec. Replaced one O-ring on the flange by the by-pass valve of the line because I had to remove the line completely in order to replace the coupler. I had top cover removed so I reinstalled the top cover.

70276-48	Hose Assembly	1 N

CONTINUED ON PAGE 07

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

PARTS

LABOR

SEGMENT TOTAL==>

SEGMENT# 9 C RU601 02160A029 11/02/23 11/08/23
RESERVOIR SIGHT GLASS, REPLACE
CONDITION:

Sight glass is leaking, replace/reseal while oil is drained.
CAUSE:

Rubber seals were dry and cracked
CORRECTION:

Cleaned around the sight glass and removed. Inspect sight glass did not see any cracks in the glass. Found that the rubber seals for the holding bolts were smashed down and cracked. Replaced the 4 seals and cleaned the mating surfaces and reinstalled the sight glass. Checked over for leaks after running.

449558	WASHER	4

PARTS

LABOR

SEGMENT TOTAL==>

SEGMENT#10 C RU601 02163A001 11/02/23 11/08/23
HOSE-SUCTION, HYD RESERVOIR TO MAIN HYD PUMP INTERMEDIATE TU
CORRECTION:

Both rubber sections of the main suction line were leaking. Hydraulics were drained and both hoses were removed. I cleaned up the steel pipe and installed 2 new sections of rubber hose. I replaced 4 hose clamps and reused 4 hose clamps. Checked over for leaks after running machine and

CONTINUED ON PAGE 08

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

everything was dry.

AT56658	HOSE CLAMP	4
A811040	O-RING	1 S
DH401248	HOSE	2 S
4069801	COUPLING	2

SEGMENT TOTAL==>

SEGMENT#11 C BC601 00407A003 11/02/23 11/08/23
OIL FILTER BASE, R&I
CONDITION:

Remote engine oil filter housing is leaking. Reseal fittings.
CORRECTION:

Cleaned around the oil filter housing and pulled hoses and fittings out of base. Installed new O-rings on hoses and fittings and put back together. Ran engine and checked for leaks when work was complete. No leaks found.

51M7045	O-RING	3

PARTS

LABOR

10401099 SEGMENT TOTAL==>

SEGMENT#12 C RU601 10010500A 11/02/23 11/08/23
500 HOUR SERVICE
CONDITION:

Perform 500hr service. Reset maintenance scheduler in monitor.
CORRECTION:

CONTINUED ON PAGE 09

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

Drained engine oil and removed oil filter.
Installed new oil filter.
Removed outer air filter and replaced.
Removed crankcase breather filter and replaced.
Remove and replace both cab filters.
Checked swing drive and finial drive fluid level.
Checked coolant level.
Filled engine with new oil.
Checked machine over.
Replaced both fuel filters.
Date and engine hours were wrote on all the filters.
Ran machine and checked oil level.
Topped off oil level.

AT330978	AIR FILTER	1
95.15		
DZ105100	Filter Element	1
41.45		
FYA00001490R	Air Filter	1
40.65		
RE539279	OIL FILTER	1

RE556406	Filter Kit	1
R502513	SEAL	1
TY26679	PLUS-50 TM ENGI	1
	PLUS-50 II OIL 15W40 CK4/SN	
TY6333	GREASE	5
T77858	O-RING	2
4S00686R	Filter	1

SEGMENT TOTAL==>

SEGMENT#13 C BC601 03360B009 11/02/23 11/08/23
BOOM CYLINDER (C0MPLETE), R&I & RECONDITION-2

CONTINUED ON PAGE 10

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

CORRECTION:

Released hydraulic pressure from the boom cylinders.
Starting with the right boom cylinder, I connected the crane to it and removed the hoses, plugged them.
I then pushed the rod pin out and lowered the cylinder down to a stand.
I then removed the rod from the cylinder.
Using a cylinder bench, I disassembled the rod and piston.
Cleaned and inspected all components.
Replaced all seals, o-rings, and wear components.
Assembled the rod and torqued the piston and nut to spec then inserted the lock screw.
Lifted the rod back into the barrel and installed the guide bolts torqueing them to spec.
Raised the rod back into position and installed the rod pin.
Connected the hoses using new o-rings.
I then performed the same procedure to the left boom cylinder.
Once both cylinders were re-sealed the pins were grease and the machine was test run checking for leaks.

No leaks were found at this time.

FXB00000632	Set Screw	4 N
FYA00006593	Seal Kit	2 N
SPEC HANDLING	fya00006593	1
SPEC HANDLING	8084925g	1

SEGMENT TOTAL==>

CONTINUED ON PAGE 11

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4342	1FF300GXJFF730219		

SEGMENT#14 C BC601 NA 11/02/23 11/08/23

ADJUST/CHECK HYDRAULIC PRESSURES

CORRECTION:

Started by turning the main relief in.
Checked the following circuits, all were within spec.
Bucket curl 39.7MPa (spec 39.23Mpa-40.21MPa)
Bucket dump 39.7MPa (spec 39.23Mpa-40.21MPa)
Arm in 39.5Mpa (spec 39.23Mpa-40.21MPa)
Arm out 39.5MPa (spec 39.23Mpa-40.21MPa)
Boom up 39.5MPa (spec 39.23Mpa-40.21MPa)
I then set the main relief and power boost as followed.
Main relief 35.9MPa (spec 33.7MPa-36.2MPa)
Power Boost 39.9MPa (37MPA-39.9MPa)

LABOR

SEGMENT TOTAL==>

****** WORK ORDER

PARTS

LABOR

HAZARDOUS MTL

SRV ACCESSORIES

SD STATE TAX

TOTAL DUE RDO

23895.06

Description					
STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4184	1FF300GXJFF730219		

SEGMENT# 1 C BC601 RDO-900-110 09/27/23 09/28/23

BASIC INSPECTION - CONSTRUCTION EQUIPMENT

CAUSE:

-Customer request

CORRECTION:

Performed a machine inspection at the customers request.
The following issues were found and discussed with the customer.
The coolant reservoir is seeping, will need replaced.
All cylinders are both starting to seep.
Arm cylinder hose at the base of the machine is cracking.
The hydraulic tank return couplers are starting to seep.
The fuel level sender is starting to leak around the gasket.
Three bottom rollers on the right side are starting to seep.
All pins and bushing have a large amount of movement in them.
The following codes were found
ECU 189.31 Engine derate is active, 3 times, first at 4186 and last at 4187
ECU 676.14 Cold start relay signal not received, stored, 1 time, 4186

ECU 1569.31 Engine derate, stored, 2 times, 4186
ECU 5435.11 DEF dosing unit failed to prime, active, 3 times, first at 4183, last at 4187.
Current hrs 4184 monitor hours

LABOR

SEGMENT TOTAL==>

CONTINUED ON PAGE 02

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4184	1FF300GXJFF730219		

SEGMENT# 2 C BC601 STT-05 09/27/23 09/28/23
TRAVEL, ROUND TRIP
CORRECTION:

The machine was located at the new nursing home construction project in Ft Pierre

LABOR

SEGMENT TOTAL==>

SEGMENT# 3 C BC601 03302A001 09/27/23 09/28/23
BUCKET, REPLACE
CORRECTION:

Attempted to install a different bucket the customer had at their request.
Removed the bucket from the machine and attempted installed the new bucket but found it would not fit.
The h-bar link and bucket width where the stick fits in was too narrow in the second bucket.
Called the customer, they said to just put the original bucket back on.
While doing that I noticed a large amount of wear in pins and bushings.
I informed the customer of my findings.

LABOR

SEGMENT TOTAL==>

SEGMENT# 4 C BC601 10-020-160 09/27/23 09/28/23
DEF HEADER, R&R
CONDITION:

-DEF ISSUES

CONTINUED ON PAGE 03

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4184	1FF300GXJFF730219		

CAUSE:

The DEF pump failed.

CORRECTION:

While preforming the machine inspection, a warning came across the monitor stating there was only 19 minutes before derate.
Checked codes and found the following.
ECU189.31 Derate active, three times, first at 4186, last at 4187.
ECU 676.14 Cold start relay signal not received, 1 time at 4175.
ECU1569.31 Engine derate, 2 times at 4186.
ECU 5435.11 DEF dosing unit failed to prime, 3 times, first at 4183, last at 4187
Connected Service Advisor to the machine and performed a DEF dosing system test, the system would not build any pressure.
I could hear the pump running so to verify it wasnt a DEF level issue, I went and got some DEF from the customer and filled the tank.
I then run another DEF dosing system test, it still would not build any pressure.
I then ordered a new DEF pump, when it arrived i re-visited the machine.
Removed the DEF compartment to access the pump.
Removed the pump and installed the new pump.
Performed another DEF dosing system test, this time the system built pressure and the passed the test successfully.
Installed the DEF compartment.
Current hrs 4184

CONTINUED ON PAGE 04

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X928599	300GLC Excavator 300GLC	4184	1FF300GXJFF730219		

CRDZ121771 100.00-	DEF Dosing Unit
DZ121771 1120.52	DEF Dosing Unit
DEF Dosing Unit Pump	
CRDZ121771 100.00	DEF Dosing Unit
SPEC HANDLING	ADVANCE AUTO

CORE RETURN

SPEC HANDLING SPEEDEE

010586032712324629

PARTS

LABOR

SEGMENT TOTAL==>

****** WORK ORDER

TOTALS ******

PARTS

LABOR

SUB TOTAL==>

SD CITY TAX

SD STATE TAX

TOTAL DUE RDO

2772.94