



H02-231
SEP

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

DRILL

Maintenance Request / Report Form

Information

114



Paramount CN 2602-012



Thursday, March 19th 2026, 9:36 AM [MDT -06:00]

Unit Information

Date:



March 19, 2026

Select Unit Number:



114

KMs:



0

Hours:



6227

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.



Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):



We need to replace pistons and liners on this FMC pump.

AT ditch witch.

- mud motoring the last 10 days has caused pump liners to leak.

LUC

WEAR PADS (-"L" SHUTTLE ARMS) & BOLTS

HDD u/s

SWITCH COVERS

HOLE OPENER TOOL KIT



Serial/Part # if applicable:

Liner & pistons needed

Urgency of Repairs:

Select priority level of repairs:

☒ High Priority - Required within 1-2 days

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

☒ FULL SERVICE COMPLETED? Check the box if Oil /Filters & inspection are performed.

Requested By:

Worker Requesting Repairs:

 Cory Nielsen

Request submitted to:

After signing Request Form be sure to: Request Signature or Approval Tab and select either from the Given Names below: Ron Jerome Dan Fontaine Jon Archibald

Signatures

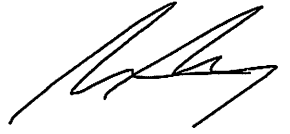
Cory Nielsen, Locator



March 19th 2026, 9:36 AM (MDT -06:00)



52.3968302, -114.7221774

A handwritten signature in black ink, appearing to be 'Cory Nielsen'.



Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

DRILL

RMH

Maintenance Request / Report Form

Information

114

Paramount CN 2602-012

Saturday, February 28th 2026, 1:26 PM [MST -07:00]

Unit Information

Date: February 28, 2026

Select Unit Number: 114

KMs: # 0

Hours: # 6073

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

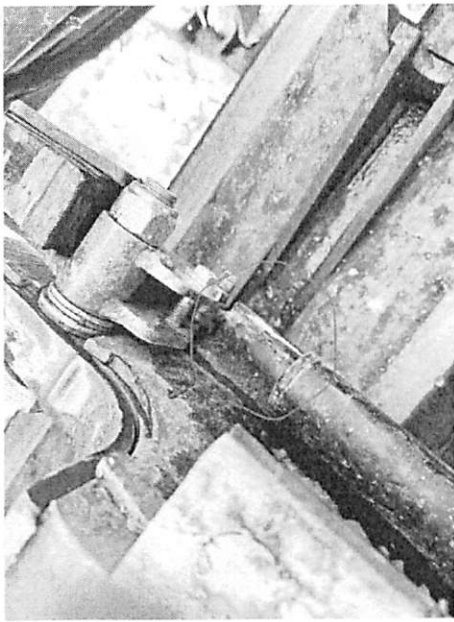
☒ Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):

Gripper shaft for thumb x2
RELAYS x2.

DROPPED PARTS OFF @
HDD u/G
1/2 HE SENT TO RMH



Serial/Part # if applicable:

☐ No Response

Urgency of Repairs:

Select priority level of repairs:

☒ High Priority - Required within 1-2 days

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

☐ FULL SERVICE COMPLETED? Check the box if Oil /Filters & inspection are performed.

Requested By:

Worker Requesting Repairs:

 Cory Nielsen

Request submitted to:

After signing Request Form be sure to: Request Signature or Approval Tab and select either from the Given Names below: Ron Jerome Dan Fontaine Jon Archibald

Signatures

Cory Nielsen, *Locator*



February 28th 2026, 1:26 PM (MST -07:00)



52.3806382, -114.7662161



Sam Luciani-Grimaldi, *Laborer*



March 1st 2026, 9:02 AM (MST -07:00)



52.3806818, -114.7628186





DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

 114

 Sage Creek KB 2601-021

 Wednesday, February 18th 2026, 12:30 PM (MST -07:00)

Unit Information

Date:  February 2, 2026

Select Unit Number:  114

KMs:  0

Hours:  5988

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Report - Field completion of maintenance.

Repairs Required

Description of Repairs Required (attach photos):

 Replaced mud pump pressure potentiometer in cab. Took switch from unit 105 in shop. Tested good

Serial/Part # if applicable:  No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Repair completed

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired



FULL SERVICE COMPLETED? Check the box if Oil /Filters & inspection are performed.

Requested By:

Worker Requesting Repairs:



Colton Wookey

Request submitted to:

After signing Request Form be sure to: Request Signature or Approval Tab and select either from the Given Names below: Ron Jerome Dan Fontaine Jon Archibald

Signatures

Colton Wookey, *Mechanic*



February 18th 2026, 12:30 PM (MST -07:00)



55.3093923, -118.7970329

Ron Jerome, *Supervisor*



Approved



February 18th 2026, 3:41 PM (MST -07:00)



52.8515199, -110.8418082



DIZIL

Brothers HDD Inc.
2002 23 Avenue,
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

114

Grand Prairie - Shop

Sunday, January 18th 2026, 8:26 AM (MST -07:00)

Unit Information

Date: January 18, 2026

Select Unit Number: 114

KMs: # 0000

Hours: # 5906

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Report - Field completion of maintenance.

Repairs Required

Description of Repairs Required (attach photos):

Change the water separator, and the fuel filter / AIR FILTERS
Replaced lights
Replaced windshield ENGINE OIL / FILTER

Serial/Part # if applicable: No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Completed

Location of repairs being completed:

Pick the location where the repairs were completed:

 Grande Prairie Shop

Requested By:

Worker Requesting Repairs:

 Chase Atkinson

Request submitted to:

After signing Request Form be sure to: Request Signature or Approval Tab and select either from the Given Names below: Ron Jerome Dan Fontaine Jon Archibald

Original

Chase Atkinson, *Laborer*

 January 18th 2026, 8:26 AM [MST -07:00]

 55.3093813, -118.7972675



Revised on January 19th 2026, 10:31 AM [MST -07:00]

Current View

Chase Atkinson, *Laborer*

 January 19th 2026, 10:31 AM [MST -07:00]

 55.3093752, -118.7972991





DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

 114

 Vault DL 2510-003

 Thursday, October 30th 2025, 8:05 AM (MDT -06:00)

Unit Information

Date:  October 30, 2025

Select Unit Number:  114

KMs:  0

Hours:  5622.8

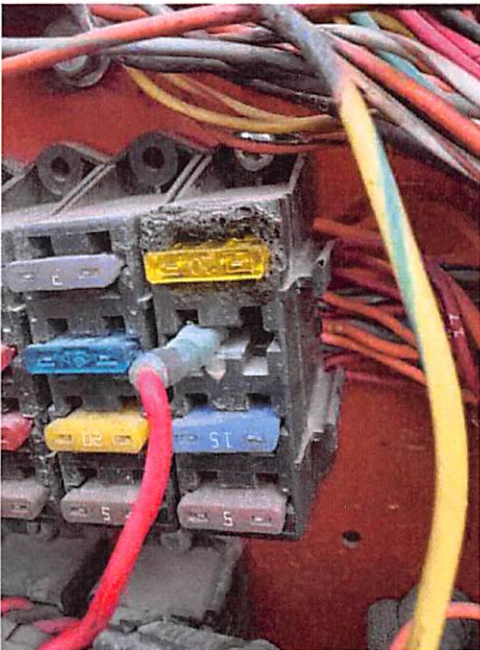
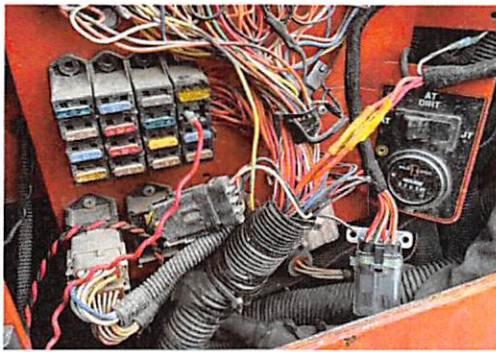
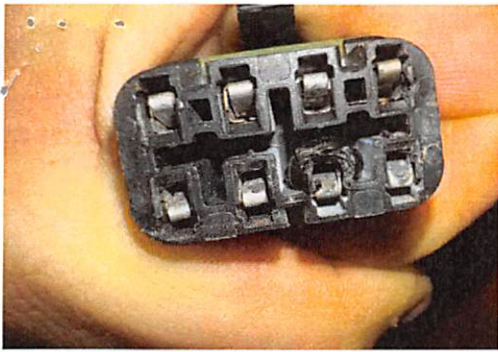
Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Report - Field completion of maintenance.

Repairs Required

Description of Repairs Required (attach photos):

 Relays Burnt on ignition side of key
FUSE BOX



Serial/Part # if applicable:

☐ No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Low Priority - Repair at earliest convenience

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Wainwright Shop

Requested By:

Signatures

Derik Lynch, *Locator*



October 30th 2025, 8:05 AM (MDT -06:00)



57.4235162, -111.6323976

A handwritten signature in black ink, appearing to be 'D. Lynch'.



DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

114

REF# 60214304046

BHDD Shop

Monday, October 6th 2025, 1:19 PM (MDT -06:00)

Unit Information

Date: October 6, 2025

Select Unit Number: 114

KMs: # 0

Hours: # 5463

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

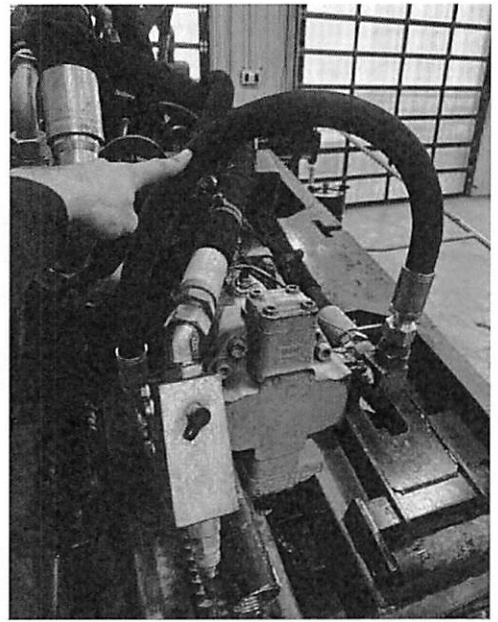
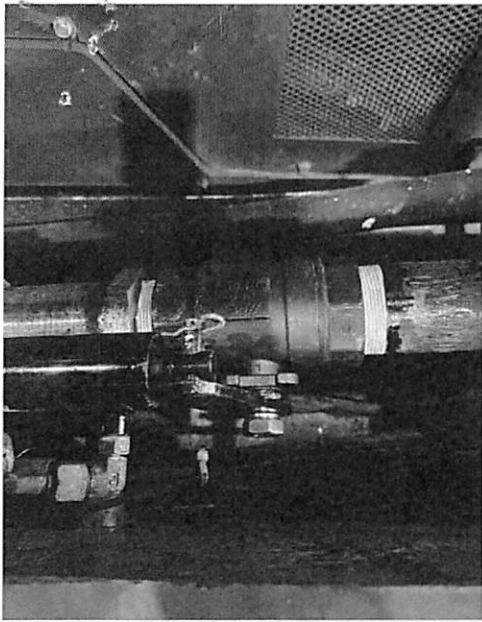
☒ Maintenance Report - Field completion of maintenance.

ENTERED
Nov 27/25

Repairs Required

Description of Repairs Required (attach photos):

Full Service
Changed water value
Changed "L" shape pad
Crain switch has to be off so anchors work
Changed hydraulic hose on top drive was worn



Serial/Part # if applicable:

— No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Low Priority - Repair at earliest convenience

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Wainwright Shop

Requested By:

Worker Requesting Repairs:

 Derik Lynch

Signatures

Derik Lynch, *Locator*

 October 6th 2025, 1:19 PM [MDT -06:00]

 52.8512604, -110.8421687



Maintenance Request / Report Form

Information



114



Strathcona DL 2509-011



Thursday, October 2nd 2025, 1:57 PM [MDT -06:00]

Unit Information

Date:



October 2, 2025

Select Unit Number:



114

KMs:



1

Hours:



1

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.



Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required [attach photos]:



Change water valve by mud pump it's leaking

(UPDATED)

Oil change ✓

Get Ron to see why we have to be sitting on seat to drop anchors



CRANE POWER ON

Serial/Part # if applicable:



No Response

Urgency of Repairs:

Select priority level of repairs:



High Priority - Required within 1-2 days

Location of repairs being completed:

Pick the location where the repairs were completed:



Wainwright Shop

Requested By:

Worker Requesting Repairs:



Derik Lynch

Signatures

Derik Lynch, *Locator*



October 2nd 2025, 1:57 PM (MDT -06:00)



52.296462, -109.9786832

DRILL

Maintenance Request / Report Form

Information

114

Iconic DL 2509-006

Tuesday, September 16th 2025, 12:06 PM (MDT -06:00)

Unit Information

Date: September 16, 2025

Select Unit Number: 114

KMs: # 0

Hours: # 5409.9

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):

☰ Rig over heating



BRANDT MECHANIC COMING TO SITE

REPLACED THERMOSTAT

Serial/Part # if applicable:

☰ No Response



Urgency of Repairs:

Select priority level of repairs:

- ☒ Critical - Immediate attention needed

Location of repairs being completed:

Pick the location where the repairs were completed:

- ☒ Field Repaired

Requested By:

Worker Requesting Repairs:  Derik Lynch

Signatures

Derik Lynch, *Locator*

 September 16th 2025, 12:06 PM (MDT -06:00)

 52.9777877, -112.769722





DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

 114

 Canadian Plains DL 2507-002

 Wednesday, August 6th 2025, 3:35 PM [MDT -06:00]

Unit Information

Date:  August 6, 2025

Select Unit Number:  114

KMs:  1

Hours:  5190

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):

 Short savour interlock sub, and a short savour sub

Serial/Part # if applicable:  No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Standard Priority - Required within 3-5 days

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

Requested by:

Worker Requesting Repairs:



Derik Lynch

Signatures

Derik Lynch, *Locator*



August 6th 2025, 3:35 PM (MDT -06:00)



52.1480653, -106.1719703

A handwritten signature in black ink, appearing to read 'Derik Lynch', written over a light blue grid background.



Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

DIZILL

Field Requisition Form for Tools, Parts, & Consumables

Information

 Vise Clamp Cylinder #114

 Canadian Plains CM 2507-001

 Sunday, July 27th 2025, 7:26 AM [MDT -06:00]

General Information

Date:  July 27, 2025

Location:  Saskatoon - rig 114

Job #  2507002

Site Supervisor:  Colin English

Item Details - List all items clearly

Tool/Part/Consumable Description  Rear vise clamp cylinder leaking / welder will repair / need spare

Quantity: Number of Items Needed  1 vise clamp cylinder for JT100

Serial/Part Number if applicable:  No Response

Special Instructions [ie. Specific brand, model or usage details]
 No Response

Urgency of Request:
 High Priority - Required within 1-2 days

Comments or Delivery Instructions:
 Chad is coming back to site tomorrow to get Jason's truck could send cylinder with him if we have one at the shop

Signatures

Worker Submitting the Request  Colin English

Signatures

Colin English, *Supervisor*



July 27th 2025, 7:26 AM (MDT -06:00)



52.1170475, -106.2687835



Kyle O'Connell, *Driller*



July 28th 2025, 7:01 AM (MDT -06:00)





DRILL

Brothers HDD Inc.
2002 23 Avenue,
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

114

BHDD Shop

Thursday, July 24th 2025, 2:43 PM (MDT -06:00)

Unit Information

Date: July 24, 2025

Select Unit Number: 114

KMs: # 0

Hours: # 5125

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):

Top drive hydraulic fittings

Serial/Part # if applicable: No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Critical - Immediate attention needed

ORDERED NEW FROM
PARTS FROM #107
BRANDT

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

Requested By:

Worker Requesting Repairs: Derik Lynch

Additional Photos



Signatures

Ron Jerome, *Supervisor*

 July 24th 2025, 2:43 PM (MDT -06:00)

 52.8515778, -110.8418368



ROTATION MOTOR HYDRAULICS WITH SPIKE RELIEF BEGINS WITH S/N: CMWJT100_____, CMWAT100_____

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	514-144	1	REDUCER (160-200F)	
2.	105-159	4	CAM WASHER (1/2")	
3.	105-111	4	BOLT (1/2-NC X 4")	
4.	150-2620	1	RELIEF VALVE ASSY, 4300 PSI	SEE FOOTNOTES 1 & 2
5.	515-732	1	HOSE (160FX90-40M"-6000)	
6.	301-3240	-	CABLE TRAY BRACKET	
7.	150-1838	2	HOSE (200FX90M-67"-6000)	
8.	105-953	2	WASHER (3/4"-NC)	
9.	514-374	1	CONNECTOR (20S-16045)	
10.	149-995	1	HEAD FLANGE (20HFL-16SF)	
11.	159-933	1	CONNECTOR (20S-20045)	
12.	106-098	2	FLG BOLT (3/4-NC X 2", GD8)	
13.	106-204	4	BOLT (1/2-NC X 1-1/2", SOC)	
14.	157-078	2	O-RING (222 D90)	
15.	117-568	2	ABRASION SLEEVE (2.38" X 66")	
16.	117-651	1	ABRASION SLEEVE (2.38" X 45")	
17.	157-261	1	TEE (16S-200-200)	
18.	150-2642	1	HYD MOTOR (PISTON) 1600CC	
19.	106-949	4	WASHER (3/4", HARDENED)	

NOT SHOWN:

214-630	1	SPINDLE HARNESS	MACH 1 UNITS
117-327	1	ABRASION SLEEVE (1.59" X 231")	MACH 1 UNITS
500-3195	1	SPIKE RELIFE KIT	INCLUDES REF NO.'S 1-4,5(1X),9,11,16(1X) & 17

FOOTNOTES:

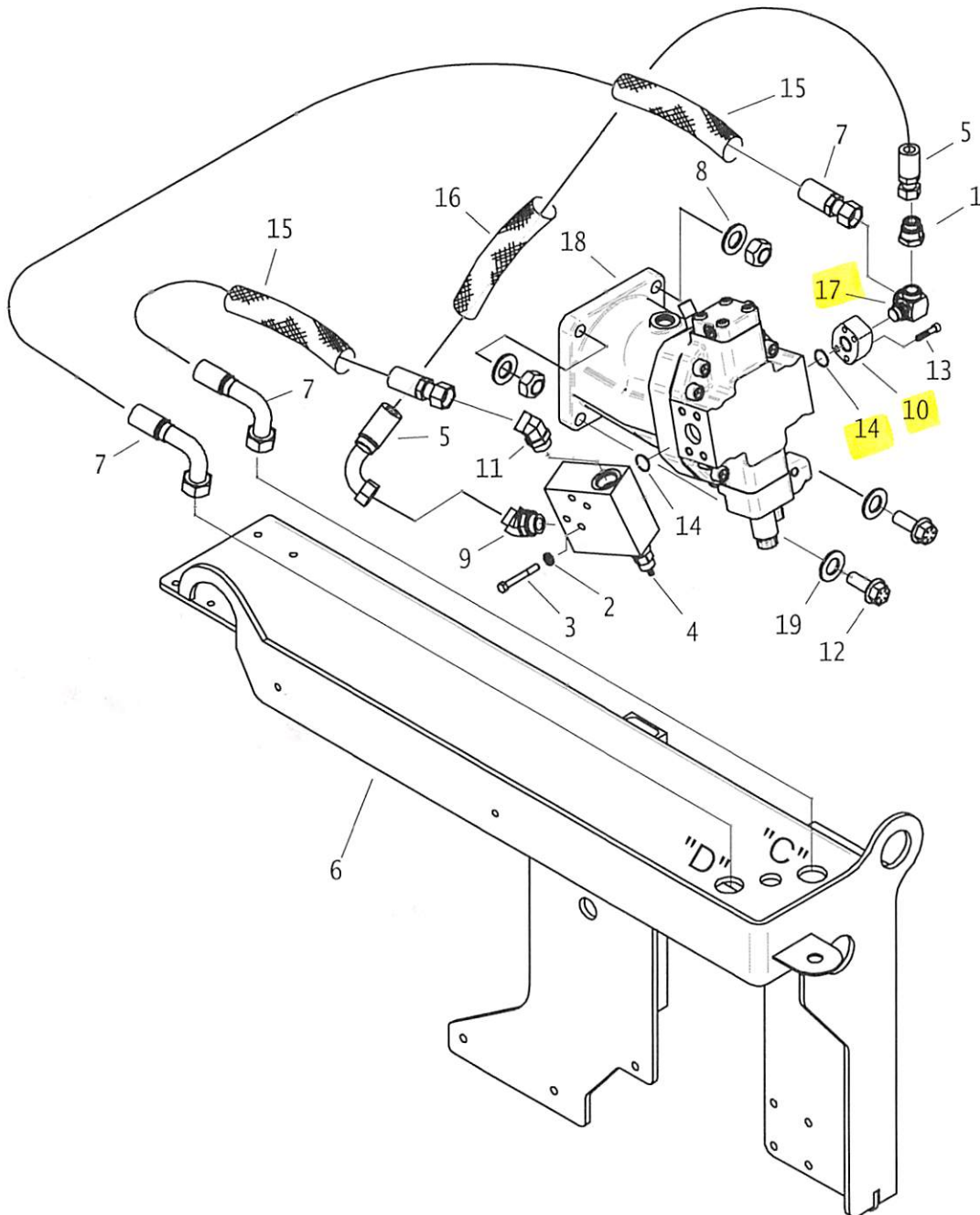
1. WHEN INSTALLING RELIEF VALVE ASSY, 150-2620, SET RELIEF CARTRIDGE SETTING TO 4300 PSI BY ROTATING THE ADJUSTMENT SCREW AN ADDITIONAL 3/4 OF A TURN CLOCKWISE. THE CARTRIDGE IN THIS ASSY COMES PRESET AT 3800 PSI.
2. USE SERVICE PART 500-2513 RELIEF VALVE CARTRIDGE. WHEN REPLACING CARTRIDGE ONLY, SET CARTRIDGE TO 4300 PSI BY ROTATING THE ADJUSTMENT SCREW AN ADDITIONAL 3-1/3 TURNS CLOCKWISE. CARTRIDGE COMES PRESET AT 1000 PSI.

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS

ROTATION MOTOR HYDRAULICS WITH SPIKE RELIEF

BEGINS WITH S/N: CMWJT100____, CMWAT100____





Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

DERIK

Maintenance Request / Report Form

Information



114



Canadian Plains DL 2507-002



Wednesday, July 16th 2025, 10:52 AM [MDT -06:00]

Unit Information

Date:



July 16, 2025

Select Unit Number:



114

KMs:



0

Hours:



0

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.



Maintenance Report - Field completion of maintenance.

Repairs Required

Description of Repairs Required (attach photos):



Brand new gage, spiked on power pack making up tooling



Serial/Part # if applicable:

Need a gage that can handle more then 3000

Urgency of Repairs:

Select priority level of repairs:

Low Priority - Repair at earliest convenience

Location of repairs being completed:

Pick the location where the repairs were completed:

Field Repaired

Requested By:

Worker Requesting Repairs:

Derik Lynch

Signatures

Derik Lynch, *Locator*

July 16th 2025, 10:52 AM [MDT -06:00]

52.0923187, -106.3492728



DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

114

w/o # 000167

BHDD Shop

Monday, July 7th 2025, 7:02 AM (MDT -06:00)

Unit Information

Date: July 4, 2025

Select Unit Number: 114

KMs: # 0

Hours: # 5075

ENTERED
July 8, 2025
joe

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Report - Field completion of maintenance.

Repairs Required

Description of Repairs Required (attach photos):

- Checkover
- full service engine, fuel, hydraulic, air
- replaced front hydraulic quick couplers
- replaced shuttle arm motor
- installed anchor shaft
- installed pipe gripper nut

Serial/Part # if applicable: No Response

Urgency of Repairs:

Select priority level of repairs:

☒ High Priority - Required within 1-2 days

Location of repairs being completed:

Requested By:

Worker Requesting Repairs:



Luke Jacobsen

Signatures

Luke Jacobsen, *Mechanic*



July 7th 2025, 7:02 AM [MDT -06:00]



52.85136, -110.8420826



WHERE IS DRILL
DRILL W.O?

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information



Rocky Gas DL 2503-009



Monday, May 26th 2025, 10:40 AM [MDT -06:00]

Unit Information

Date:



May 26, 2025

Select Unit Number:



114

KMs:



1

Hours:



5002

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.



Maintenance Request - Request shop assistance in facilitating repairs.

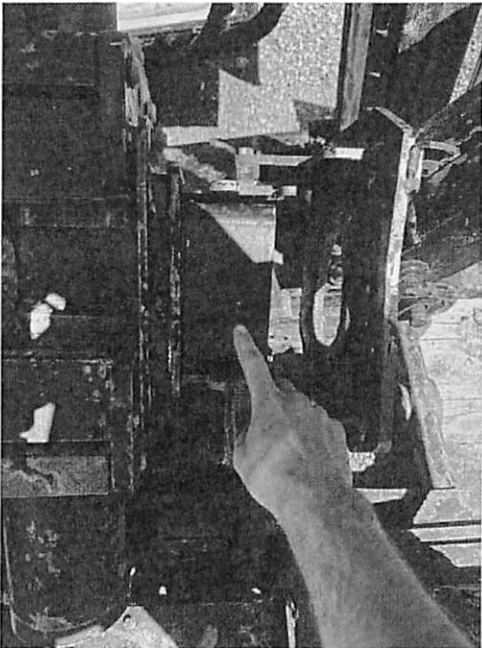
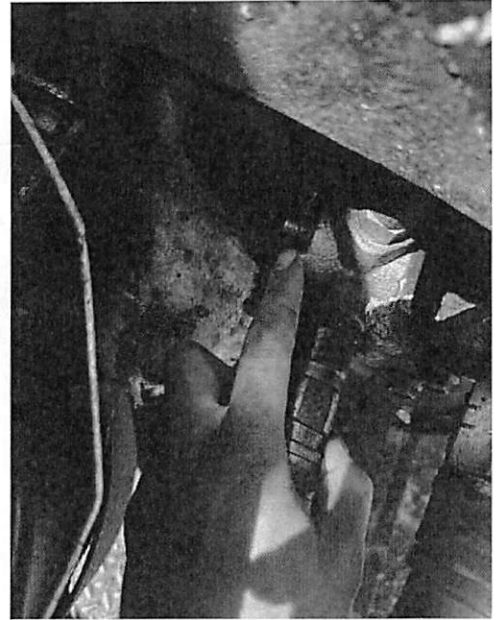
Repairs Required

Description of Repairs Required (attach photos):



Top break out cylinder leaking, pipe guild bent, top finger ram cylinder bolt broken, anchor activator leaking, hydraulic leak from Craine area,

- 1) ALL 4 VISE RAMS
- 2) GRIPPER WEAR PADS
- 3) WELD ANCHOR CONTROL PLATE
- 4) REPLACE ROD GUIDES (2)



Serial/Part # if applicable:

☐ No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Low Priority - Repair at earliest convenience

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Wainwright Shop

Requested By:

Signatures

Derik Lynch, *Locator*



May 26th 2025, 10:40 AM [MDT -06:00]



52.8517857, -110.8418044

A handwritten signature in black ink, appearing to be 'D. Lynch'.



DRILL (DRIK)

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request / Report Form

Information

 114

 Rocky Gas DL 2503-009

 Wednesday, April 9th 2025, 9:26 AM [MDT -06:00]

Unit Information

Date:  April 9, 2025

Select Unit Number:  114

KMs:  00

Hours:  4749

Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Request - Request shop assistance in facilitating repairs.

Repairs Required

Description of Repairs Required (attach photos):

 Valve leaking



Slow hydraulic leak from center of valve

Serial/Part # if applicable:

☐ No sure

Urgency of Repairs:

Select priority level of repairs:



Low Priority - Repair at earliest convenience

Location of repairs being completed:

Pick the location where the repairs were completed:



Wainwright Shop

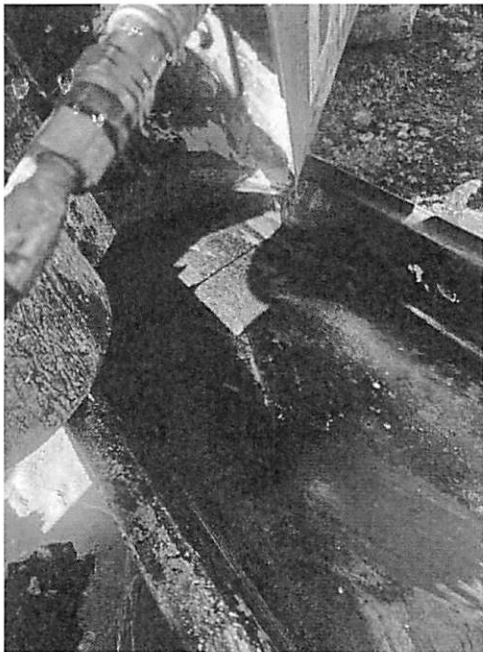
Requested By:

Worker Requesting Repairs:



Derik Lynch

Additional Photos



Will catch the oil in drip tray

Signatures

Derik Lynch, *Locator*



April 9th 2025, 9:26 AM [MDT -06:00]



52.4910772, -116.05178



Quote



JOHN DEERE

P A R T S Q U O T E

Brandt Tractor Ltd.
10571-178 ST
Edmonton, AB T5S 2K4
(780) 484-6613

Date: 7 MAY 25
Time: 10:59
Expires: 6 JUN 25

For: BROTHERS HDD
2002-23 RD AVE
EM INVOICES!!
WAINWRIGHT
(780) 214-7711

Slsprsn: DENNIS PETRYSHEN

Quote No: 62147711055
Segment No: 1

Make DW Model Pin **P0#12430** Segment No: 1

Qty	Part Number/Description	Wgt	Ext Wgt	Unit Price	Extended Price
1	150-2927 DIVERTER VAL	3	3	267.53	267.53

STOCK HERE @ BRANDT

Total Weight 3

Total Labor 0.00
Total Parts 267.53
Total Misc 0.00

Customer may be subject to GST/HST

Quote/Estimate Expires: 6 JUN 25

Taxes 0.00
Grand Total 267.53

UNIT # 114.



DRILL

DEREK

MAINTENANCE REQUEST FORM

UNIT# 114

HRS/KM

DESCRIPTION OF REPAIRS REQUIRED

- FULL SERVICE

- PIPE GRIPPER FINGERS

- 2 SPEED THRUST

- INNER WATER SWIVEL ?

- FUSE PANEL REPAIR

- WATER VALVE HYD CYLINDER

- TOP DRIVE SIGHT HOSE

- DITCHER SWITCH

- ANCHOR CONTROL MOUNTING PLATE

HDD PRO INY#

REQUESTED BY:

DATE:



MAINTENANCE REQUEST FORM

UNIT# 114

HRS/KM 3323

DESCRIPTION OF REPAIRS REQUIRED

① MAIN POWER FUSE REPAIR

② WATER SWIVEL

③ CRACKED ANCHOR GEAR BOX x 2
(SEALS ON ORDER)

④ 1000 HR SERVICE

REQUESTED BY:

DATE:



MAINTENANCE REQUEST FORM

UNIT# 114

HRS/KM 3389

DESCRIPTION OF REPAIRS REQUIRED

- Row selector Hyd cylinder leaking ✓
- Cab side stake down - plate needs welding ✓
- ~~Change Air Filter~~ ✓

REQUESTED BY: Kirk

DATE: April 19/24



MAINTENANCE WORK ORDER

No 3394

UNIT #: 114

ENGINE HOURS: 556

MILEAGE:

WORK LOCATION: Wainwright

WORK REQUESTED:

ORDER DATE: Mar 12 2025

COMPLETED DATE: Mar 17 2025

JOB #:

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: Install top drive motor, Oil level tube damaged

TECH COMMENTS:

LABOUR DESCRIPTION: HOURS

Installed top drive motor, Installed hydraulic hoses, Removed oil level hose, Installed new hose.

2

Topped up oil

1

LABOUR TOTAL 3

PARTS & MATERIALS P.O. # QUANTITY PRICE AMOUNT

PARTS & MATERIALS TOTAL

WORK AUTHORIZED BY: Ron

WORK COMPLETED BY: Luke Jacobsen

UNIT RETURNED TO SERVICE: Mar 17 2025

OVERALL CONDITION OF UNIT: Good

ADDITIONAL COMMENTS:

RECORD OF INVESTIGATION
1988

2505 5/1 2019
2505 5/1 2019

111
222

Highway

beginning of level 110. water was got inside

5

Inside top of water. Inside highway
level 110. water was got inside

1

Top of oil

3

level 110
level 110

level 110
level 110



Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

174

Maintenance Request / Report Form

Information

114

w/o #000134

BHDD Shop

Friday, March 7th 2025, 8:42 AM [MST -07:00]

Unit Information

Date: March 7, 2025

Select Unit Number: 114

KMs: # 0

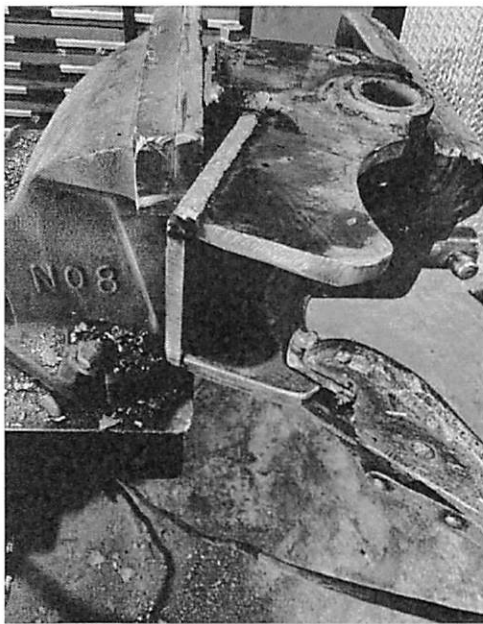
Hours: # 4570

ENTERED
MAR 07 2025

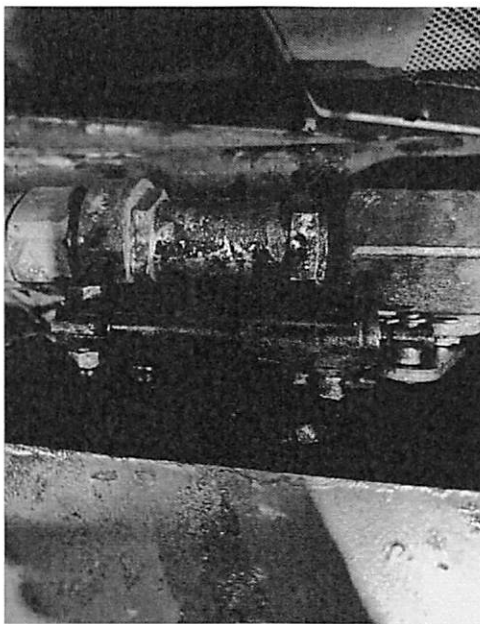
Please choose from list to identify if this is a request for Maintenance? Or if you are Reporting on maintenance completed.

☒ Maintenance Report - Field completion of maintenance.

- full service completed.
- thumbs on the shuttle seems rebuilt and strengthened.
- 2 speed issue solved (Jonathan) main coil on the top drive failed.
- mud pump gone through and serviced (Jonathan)
- dither switch replaced
- bolt on the dowel pins for the gear box tightened.
- new teeth installed on the cab side anchor
- front seal on gear box replaced again (Jonathan)
- new actuator cylinder added on the neutron valve.
- shuttle arm slider brackets tack welded in position.



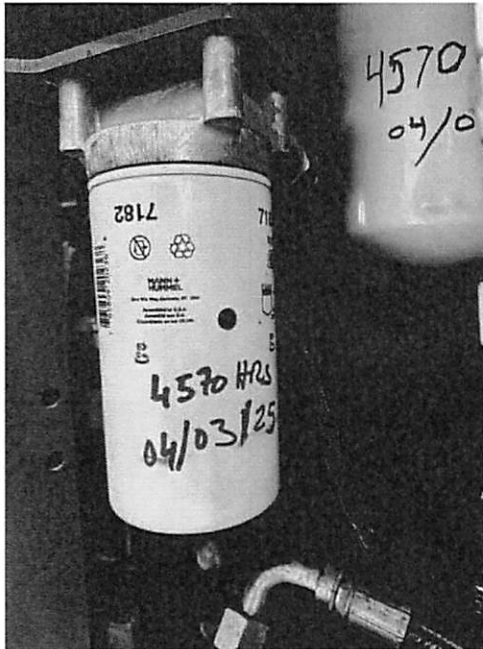
3/8 plate steel added to the back of the thumbs



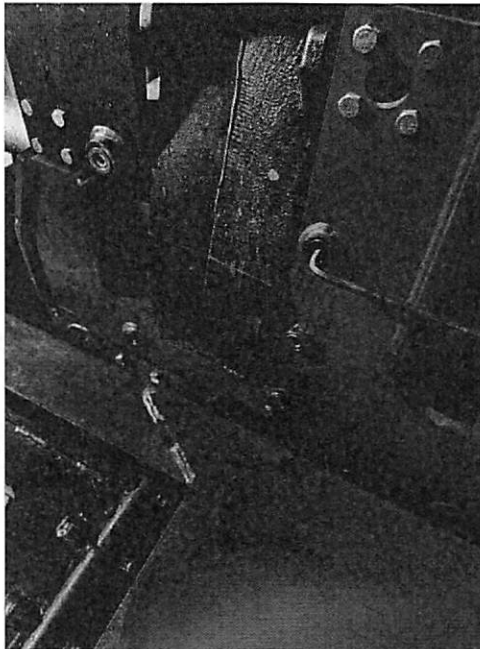
New actuator cylinder



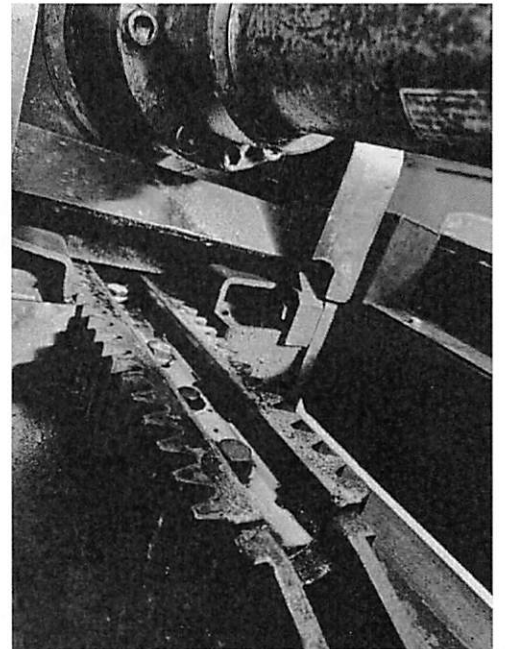
New carbide teeth installed on anchor



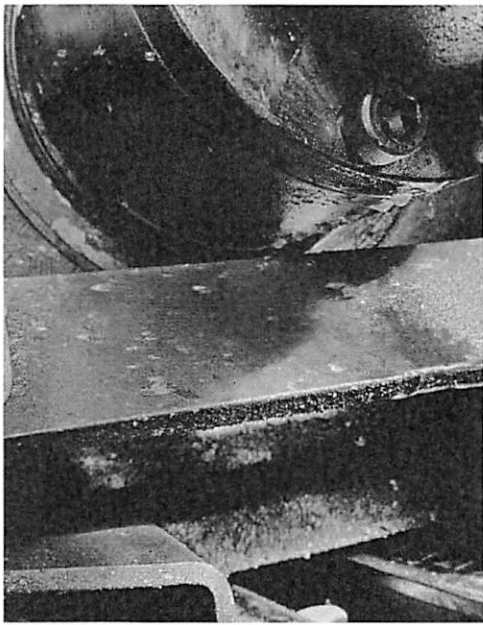
Hydraulic and motor oil service



Dowel bolts tightened



Front seal R & R



3/4 bolt added to the wear pad bracket for durability .



Tack welded the shuttle guides



Dither switch replaced with new.

Repairs Required

Description of Repairs Required (attach photos):

☰ Fuse bank

Serial/Part # if applicable:

☰ No Response

Urgency of Repairs:

Select priority level of repairs:

Location of repairs being completed:

Pick the location where the repairs were completed:



Wainwright Shop

Requested By:

Worker Requesting Repairs:



Cory Nielsen

Signatures

Cory Nielsen, *Locator*



March 7th 2025, 8:42 AM (MST -07:00)



52.1127702, -113.4763908



DEZIK
DEZIK

MAINTENANCE REQUEST FORM

UNIT# 114

HRS/KM

DESCRIPTION OF REPAIRS REQUIRED

SEE ATTACHED

- UPDATED IGN SWITCH
- FUSE PANEL

PART ORDERED FROM BRANDT

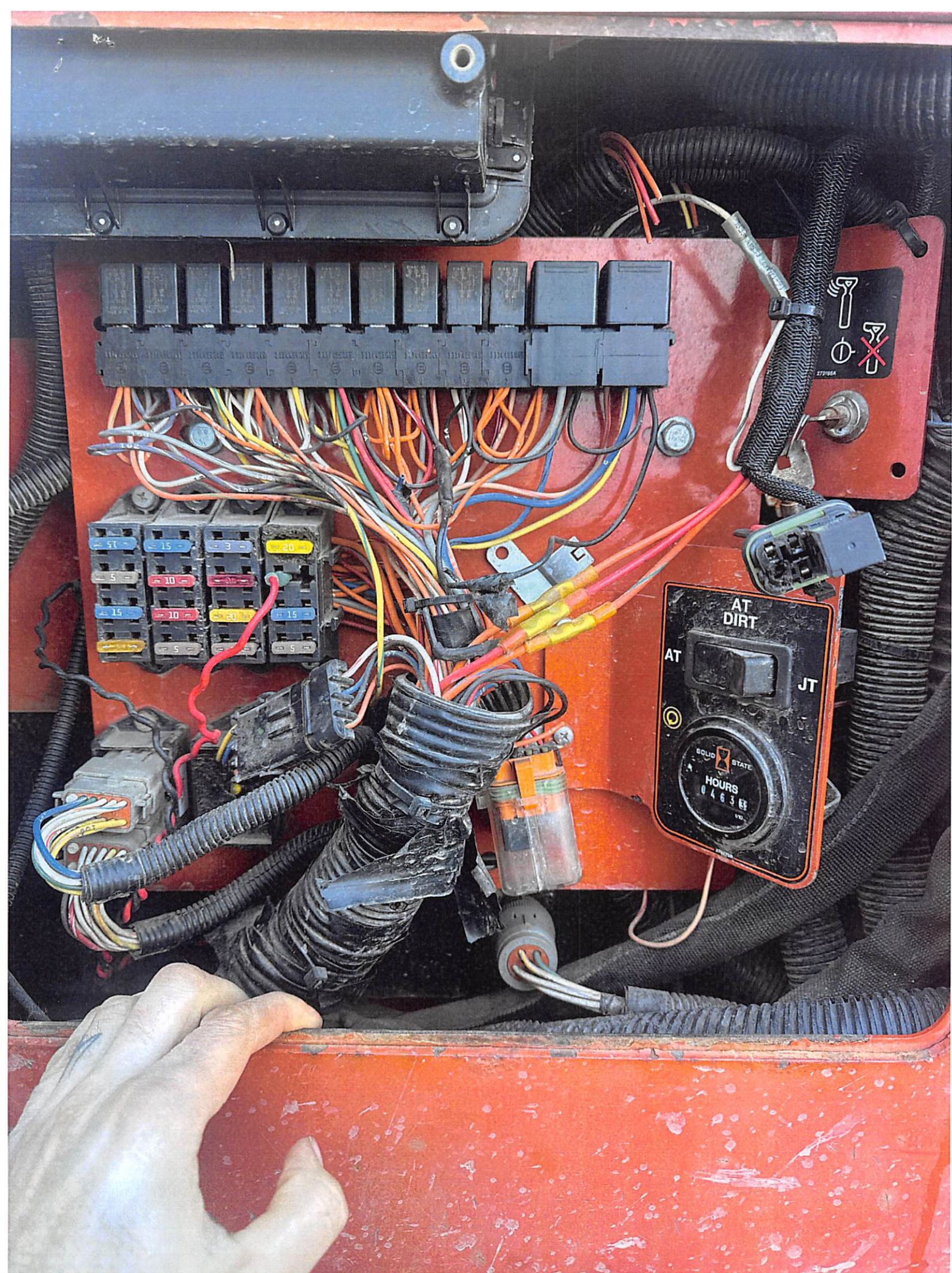
DEZIK L P.U. FEB 17

MID WEST MECHANIC HELPING OUT

STATUS UNKNOWN

REQUESTED BY:

DATE:







DRILL

Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

Maintenance Request Form

Information

114



Midwest Derik L - 2502-003



Friday, February 7th 2025, 2:22 PM (MST -07:00)

Unit Information

Date:



February 7, 2025

Select Unit Number:



114

KMs:

#

0

Hours:

#

4231

Repairs Required

Description of Repairs Required (attach photos):



- require bolts for the dowels in the rotary gear box (4)
- need spare bolts for the thumb assembly. The ones that attach the cylinder to the bracket
- watery gear oil leaking from front seal.

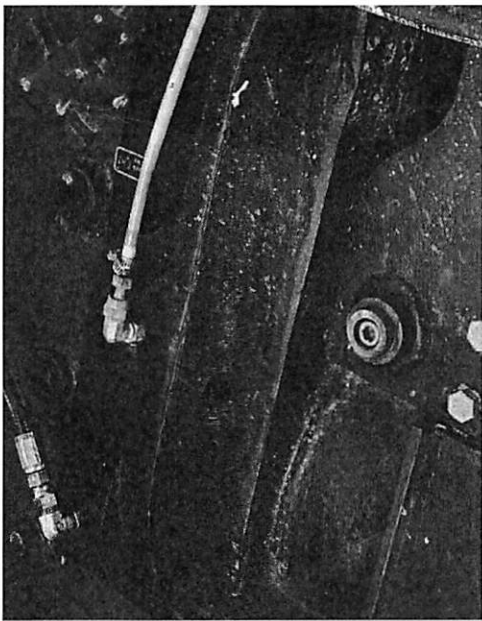
JOHATHAN C
JAN 11/25

-SEALS / FLUSH TOP DRNE

(RETURN NEW INNER
WATER SEAL TO ME)

-PINS ON ORDER

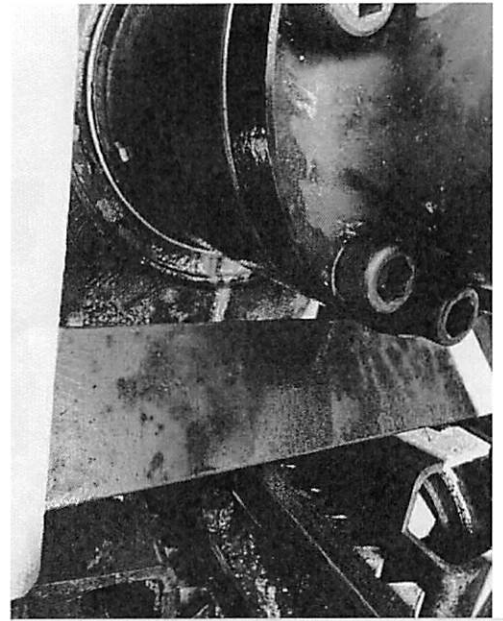
-TOP DRNE DOWEL (JTC)



Dowel bolt broken.



Need those spare bolts [6]



Watery gear oil leaking from the front seal.

Serial/Part # if applicable:

— No Response

Urgency of Repairs:

Select priority level of repairs:

☒ High Priority - Required within 1-2 days

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

Requested By:

Worker Requesting Repairs:

 Cory Nielsen

Signatures

Cory Nielsen, *Locator*

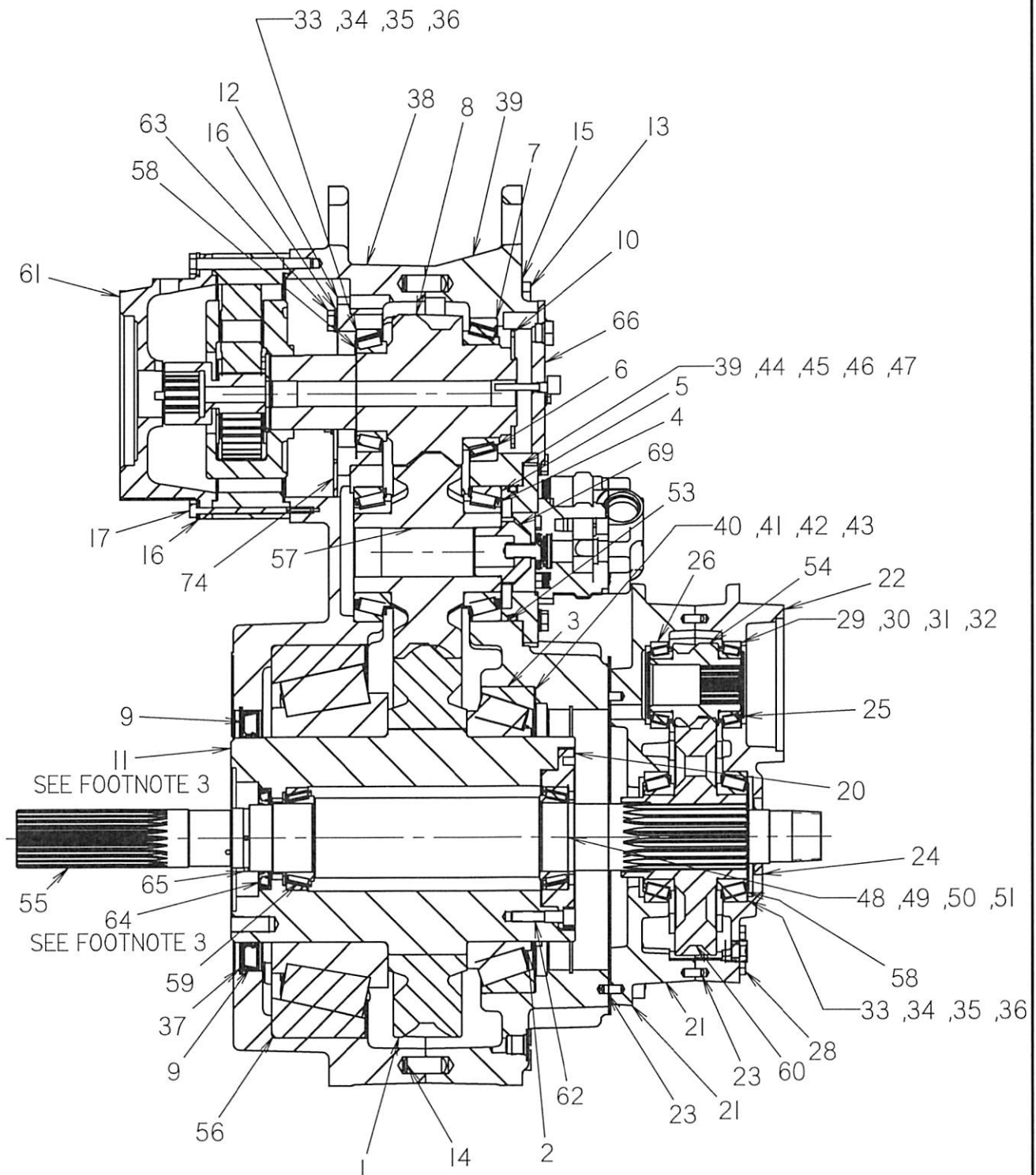
 February 7th 2025, 2:22 PM [MST -07:00]

 55.5931817, -110.9752029



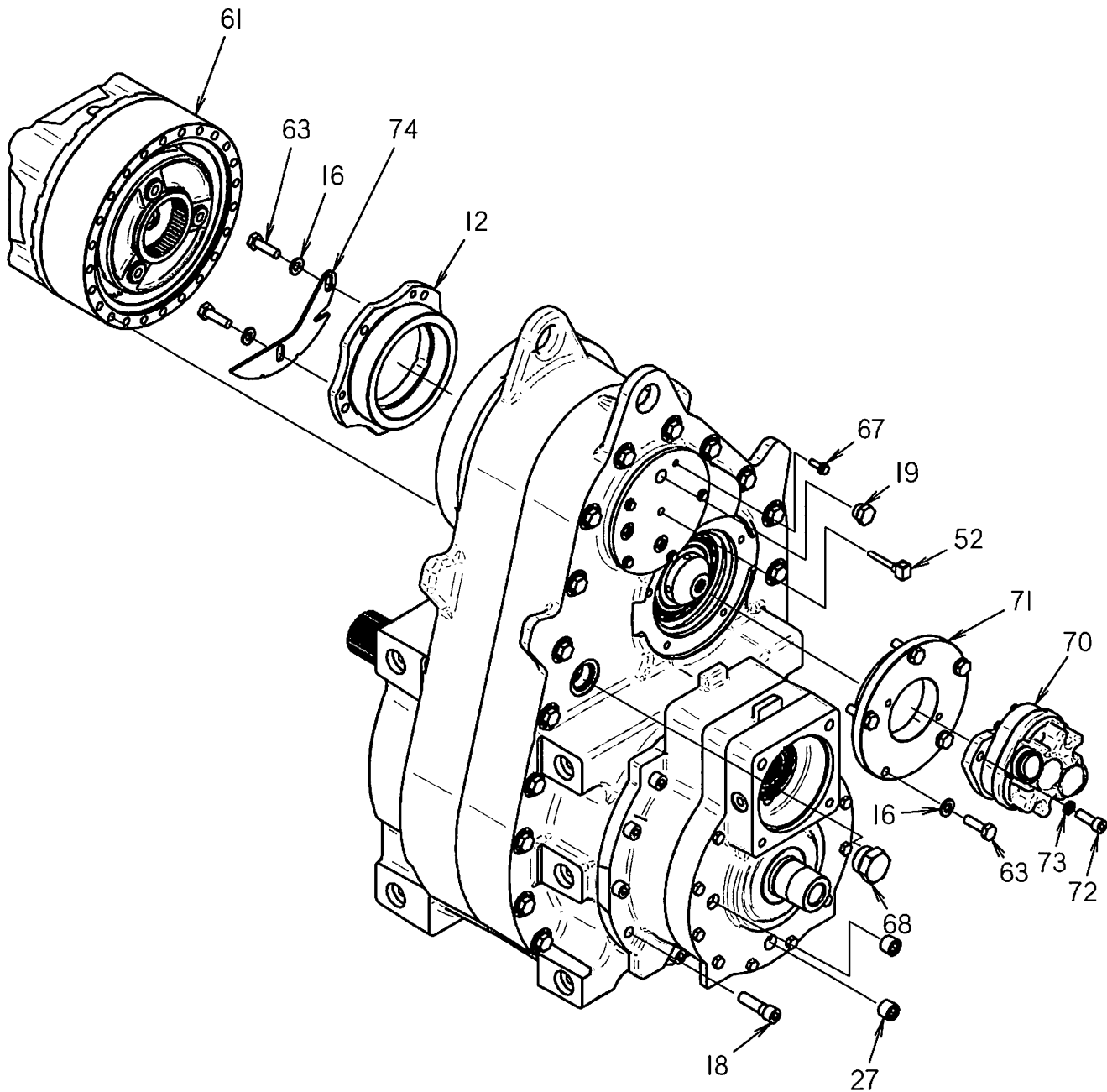
GEARBOX-ROTATION-AT

BEGINS WITH S/N: CMWAT100AE0000042 MECHANICAL GEAR PUMP



GEARBOX-ROTATION-AT

BEGINS WITH S/N: CMWAT100AE0000042 MECHANICAL GEAR PUMP



GEARBOX-ROTATION-AT **BEGINS WITH S/N: CMWAT100AE0000042 MECHANICAL GEAR PUMP**

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	160-1026		AT100 ROTATION GEARBOX	INCLUDES REF No's 1 THRU 76
1	160-1252	1	OUTPUT GEAR	
2	126-158	1	TAPERED BEARING (____")	
3	126-159	1	TAPERED RACE (____")	
4	126-156	2	BEARING CONE	
5	126-157	2	TAPERED RACE	
6	125-324	1	BEARING (TAPERED ROLLER)	
7	125-325	1	BEARING RACE	
8	160-1254	1	INPUT PINION	
9	157-706	1	EXTERNAL SEAL (7.875")	
10	160-1255	1	SPEED SENSOR RING - 57T	
11	160-1287	1	OUTPUT SHAFT	REFER TO FOOTNOTE 3
12	301-3126	1	INPUT BEARING CARRIER	
13	105-1669	22	SCREW (M12-1.75 X 120MM) 10.9	
14	500-818	2	DOWEL PIN (16MM X 40MM)	
15	105-1274	22	CAM WASHER (M12, 25.4MM O.D.)	
16	105-1272	20	CAM WASHER (M10, 21.0MM O.D.)	
17	105-1667	20	SCREW (M10-1.50 X 110MM) 10.9	
18	106-707	10	SCREW (M12-1.75 X 45MM, SOC)	
19	150-2407	1	PLUG (M18 X 1.0)	
20	300-6165	1	BEARING CAP	
21	300-6175	1	MACHINED BASE	
22	300-6176	1	MACHINED COVER	
23	105-618	4	DOWEL PIN (8MM X 20MM)	
24	157-501	1	INTERNAL SEAL	
25	126-100	2	BEARING CONE	
26	126-099	2	TAPERED RACE (3.25")	
27	115-025	2	PLUG (Ø8N, SQ FM, MAG)	
28	106-570	10	SCREW (M8-1.25 X 60MM)	
29	165-800	1	SHIM (Ø02")	
30	165-801	1	SHIM (Ø03")	
31	165-802	1	SHIM (Ø07")	
32	107-575	1	SHIM (Ø20")	
33	105-1363	2	SHIM (4.812" X 4.531" X .020")	
34	105-1364	2	SHIM (4.812" X 4.531" X .007")	
35	105-1365	2	SHIM (4.812" X 4.531" X .003")	
36	105-1366	2	SHIM (4.812" X 4.531" X .002")	
37	105-1647	1	RETAINING RING (Ø0.000")	
38	160-1267	1	AT/JT100 GEARBOX HOUSING	
39	160-1268	1	AT/JT100 GEARBOX COVER	
40	165-866	1	SHIM (178MM)	
41	165-865	1	SHIM (Ø51MM)	
42	105-1656	1	SHIM (Ø15")	
43	165-867	1	SHIM	

NOT SHOWN:

160-1026 AT ROTATION GEARBOX

INCLUDES REF No's 1 THRU 76

FOOTNOTES:

1. INSIDE THE PLANETARY REMOVE & DISCARD THE 4 PRONG THRUST WASHER BETWEEN THE SUN GEAR & OUTER CASTING PRIOR TO INSTALLATION
2. INSERT SPACER 301-8173 INSIDE THE SUN GEAR BEFORE INSTALLING BRAKE 160-1301 (REFER TO PARTS PAGE ID0315787)
3. PRIOR TO S/N CMWAT100PE0000051 GEARBOX USED OUTPUT SHAFT P/N 160-1251 & INTERNAL SEAL P/N 155-890

NOTE:

PIPE LOADER GRIPPERS BEGINS WITH S/N 2WO856

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	308-939	1	FRONT GRIPPER	
	308-938	1	REAR GRIPPER	
2.	107-682	4	ROLL PIN (M12 X 50MM)	
3.	107-223	2	SHLD BOLT (M10 X 35MM,M8-1.25)	USE 242 LOCTITE OR EQUIVALENT
4.	107-043	2	SHLD BLT (M12 X 35MM,M10-1.50)	USE 242 LOCTITE OR EQUIVALENT
5.	125-137	4	BALL BEARING (.375)	
6.	370-154	2	ROLLER	
7.	349-057	2	PLUNGER	
8.	125-430	2	BRONZE BUSHING (.502")	
9.	349-060	2	TUBE	
10.	348-037	2	SPRING WASHER (1.56")	
11.	105-858	2	BOLT (1/2-NC X 1-1/4")	
12.	349-061	2	SPRING GUIDE	
13.	117-128	2	COMPRESSION SPRING	
14.	351-163	2	CAP	
15.	151-163	-	CYL (2" X 1" X 3")	
16.	125-771	2	COMPOSITION BUSHING (1.25")	
17.	306-897	-	BACK SHUTTLE	ENDS WITH S/N: CMWJT100PA0000027
	306-898	-	FRONT SHUTTLE	ENDS WITH S/N: CMWJT100PA0000027
	301-1041	1	BACK SHUTTLE	
	301-1030	1	FRONT SHUTTLE	
18.	115-483	2	KLIP RING (1.250")	
19.	115-499	2	KLIP RING (1.000")	
20.	308-940	2	GRIP PAD	
21.	349-972	-	PIN (1.5" X 4.539")	ENDS WITH S/N: CMWJT100PA0000027
	300-6323	2	PIN (1.5" X 4.5")	
22.	125-770	4	COMPOSITION BUSHING (1")	
23.	157-537	2	WIPER SEAL (1.500")	
24.	308-944	2	GRIP PAD HOLDER	
25.	105-304	2	JAM NUT (1-5/16-NF)	
26.	107-928	2	ADJUSTMENT NUT	
27.	106-398	2	WASHER (M16, HARDENED)	
28.	107-181	2	BOLT (5/8-NC X 1-1/4", GD8)	

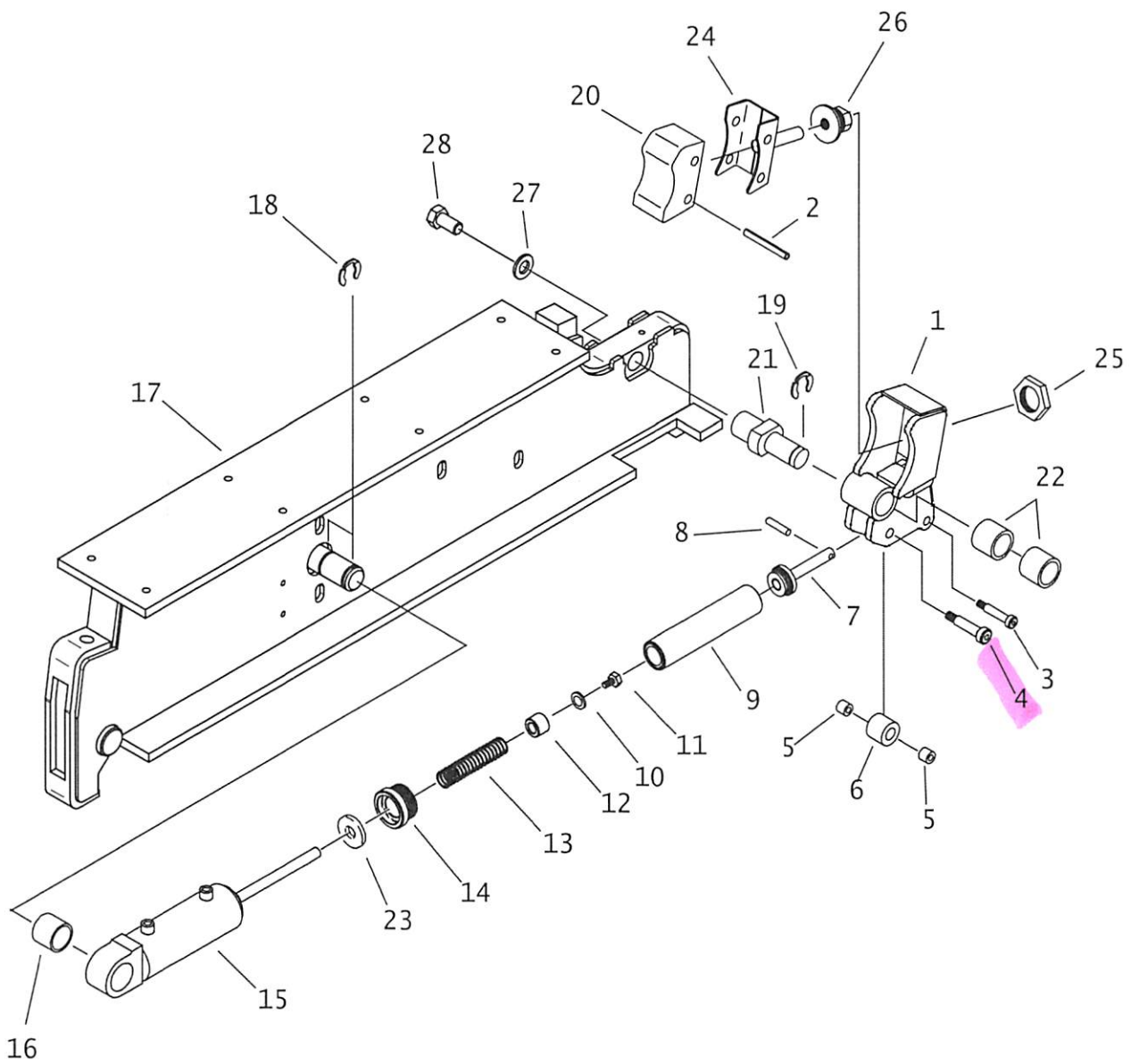
NOT SHOWN:

FOOTNOTES:

NOTE:

PIPE LOADER GRIPPERS

BEGINS WITH S/N 2WO856



GEARBOX-ROTATION-AT BEGINS WITH S/N: CMWAT100AE0000042 MECHANICAL GEAR PUMP

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
44	105-1650	1	SHIM (0.02")	
45	105-1649	1	SHIM (0.03")	
46	105-1653	1	SHIM (0.07")	
47	105-1654	1	SHIM (0.15")	
48	105-1360	1	SHIM (3.906" X 3.531" X .007")	
49	105-1361	1	SHIM (3.750" X 3.500" X .003")	
50	105-1359	1	SHIM (3.906" X 3.531" X .020")	
51	105-1362	1	SHIM (3.906" X 3.531" X .002")	
52	514-123	1	PICKUP TUBE (02N-02NF90-2")	
53	301-3157	1	O-RING (-429 D70)	
54	166-402	1	INPUT PINION	
55	160-1250	1	INNER SHAFT	
56	125-1097	1	BEARING TAPERED (7.785")	
57	160-1253	1	IDLER GEAR	
58	125-1024	3	TAPERED BEARING (80MM)	
59	125-1021	2	TAPERED BEARING (65MM)	
60	160-1048	1	GEAR	
61	160-1246	1	GEARBOX, PLANETARY	REFER TO FOOTNOTE 1 & 2
62	107-238	16	SCREW (M10-1.50 X 50MM, SOC)	
63	105-876	10	SCREW (M10-1.50 X 35MM)	
64	150-4024	1	INTERNAL SEAL (3.88" X 2.50" X .47" THK)	REFER TO FOOTNOTE 3
65	105-1191	1	DRIVE PIN (5/32" X 1/2")	
66	301-6037	1	GEARBOX CAP	
67	106-379	5	FLG LK SCREW (M6-1.00 X 20MM)	
68	155-138	1	PLUG (1/6")	
69	301-8221	1	LUBE PUMP DRIVER	
70	158-456	1	HYDRAULIC PUMP	
71	301-8219	1	PUMP BEARING CAP	
72	106-755	2	SCREW (M10-1.50 X 30MM, SOC)	
73	106-090	2	LOCK WASHER (M10)	
74	302-1037	1	OIL RETAINER	

NOT SHOWN:

FOOTNOTES:

1. INSIDE THE PLANETARY REMOVE & DISCARD THE 4 PRONG THRUST WASHER BETWEEN THE SUN GEAR & OUTER CASTING PRIOR TO INSTALLATION
2. INSERT SPACER 301-8173 INSIDE THE SUN GEAR BEFORE INSTALLING BRAKE 160-1301 (REFER TO PARTS PAGE ID0315787)
3. PRIOR TO S/N CMWAT100PE0000051 GEARBOX USED OUTPUT SHAFT P/N 160-1251 & INTERNAL SEAL P/N 155-890

NOTE:

Special Instructions (ie. Specific brand, model or usage details)

 No Response

Urgency of Request:

 Standard Priority - Required within 3-5 days

Comments or Delivery Instructions:

 Deliver to site

Signatures

Worker Submitting the Request  Cory Nielsen

Site Supervisor  Derik Lynch

Signatures

Cory Nielsen, *Locator*

 February 13th 2025, 7:42 AM (MST -07:00)

 55.4169348, -110.7425707



Field Requisition Form for Tools, Parts, & Consumables

Information

 Parts *117*

 Midwest Derik L - 2502-003

 Thursday, February 13th 2025, 7:42 AM [MST -07:00]

General Information

Date:  February 13, 2025

Location:  Midwest Conklin

Job #  2502003

Site Supervisor:  Derik Lynch

Item Details - List all items clearly

Tool/Part/Consumable Description

 Manual Roller switch for the dither on the All terrain



ORDERED
GROUND

Quantity: Number of Items Needed

 [1]

Serial/Part number if applicable:

38400002



Special Instructions [ie. Specific brand, model or usage details]

No Response

Urgency of Request:

Standard Priority - Required within 3-5 days

Comments or Delivery Instructions:

To location

Signatures

Worker Submitting the Request

Cory Nielsen

Site Supervisor

Derik Lynch

Signatures

Cory Nielsen, *Locator*

February 13th 2025, 7:40 AM [MST -07:00]

55.4151073, -110.7405938

Field Requisition Form for Tools, Parts, & Consumables

Information

 Parts 

 Midwest Derik L - 2502-003

 Thursday, February 13th 2025, 7:40 AM (MST -07:00)

General Information

Date:  February 13, 2025

Location:  Midwest Conklin.

Job #  2502003

Site Supervisor:  Derik Lynch

Item Details - List all items clearly

Tool/Part/Consumable Description

 Solenoid & Valve





Quantity: Number of Items Needed

 [2] solenoids
[2] Valves



Brothers HDD Inc
2002 23 Avenue
Wainwright, Alberta
T9W 0B8
780-214-7711

DRILL

DEREK

Maintenance Request Form

Information

114



Midwest Derik L - 2502-003



Wednesday, February 5th 2025, 12:20 PM [MST -07:00]

JOHNATHON C
ON SITE FEB 6/25

Unit Information

Date:



February 5, 2025

Select Unit Number:



114

KMs:

#

1

Hours:

#

4182

INNER WATER SWIVEL (AT)

Repairs Required

Description of Repairs Required (attach photos):

Seals in top drive



Pushing oil out

Serial/Part # if applicable: No Response

Urgency of Repairs:

Select priority level of repairs:

☒ Critical - Immediate attention needed

Location of repairs being completed:

Pick the location where the repairs were completed:

☒ Field Repaired

Requested By:

Worker Requesting Repairs: Derik Lynch

Signatures

Derik Lynch, *Locator*

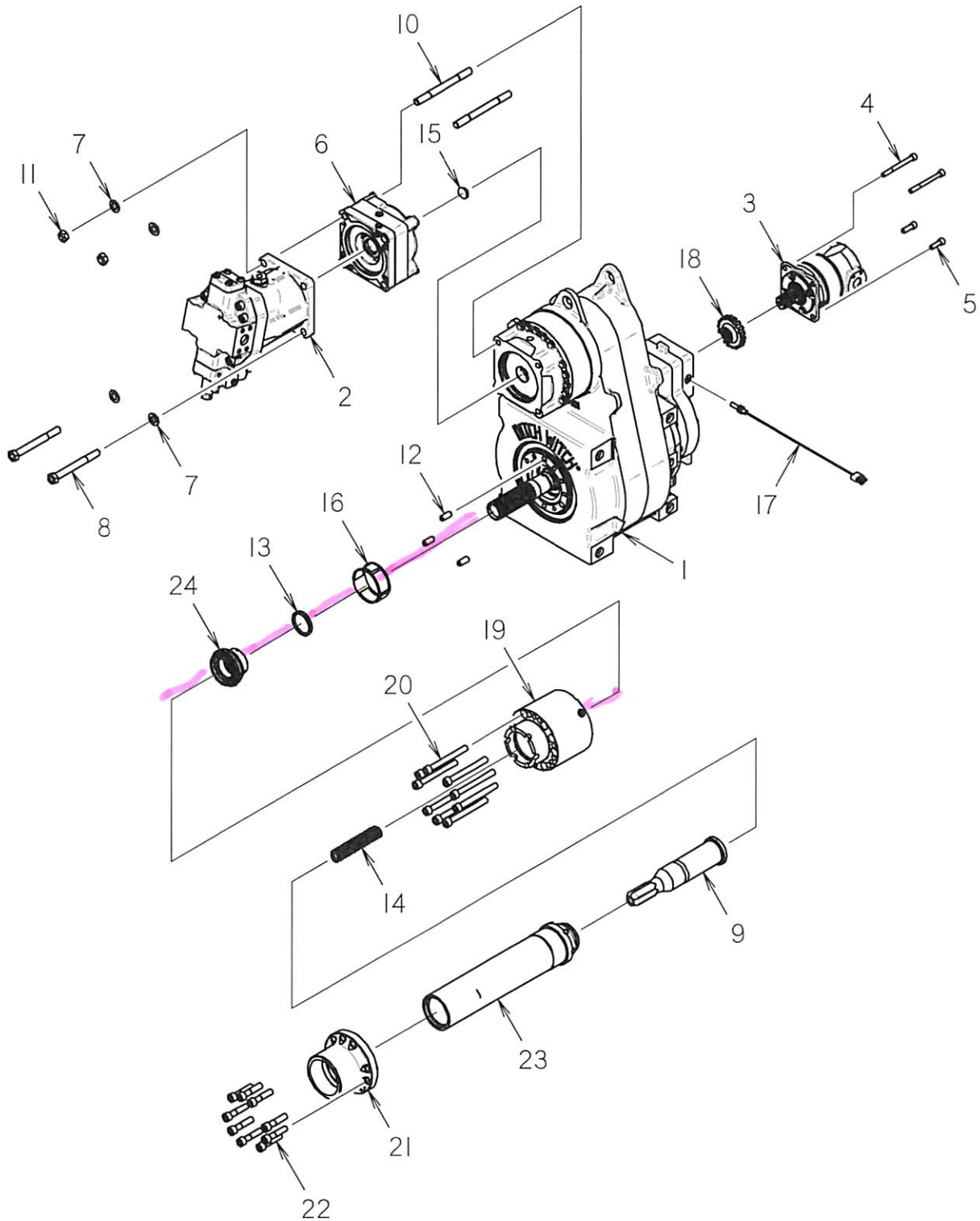
 February 5th 2025, 12:20 PM (MST -07:00)

 55.588848, -110.9763599



SPINDLE DRIVE ASSEMBLY (AT)

BEGINS WITH S/N: CMWAT100KD0000034



SPINDLE DRIVE ASSEMBLY (AT)

BEGINS WITH S/N: CMWAT100KD0000034

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1026	1	AT100 ROTATION GEARBOX	
2	150-2642	1	HYDRAULIC MOTOR, 160CC	SEE FOOTNOTE 9
3	153-612	1	HYDRAULIC MOTOR	
4	105-1351	2	SCREW (M12-1.75 X 120 SOC 12.9 ZPI)	
5	106-797	2	SCREW (M12-1.75 X 35MM, SOC)	
6	160-1301	1	MODULAR WET BRAKE	SEE FOOTNOTE 8
7	106-949	4	WASHER (3/4", HARDENED)	
8	105-464	2	BOLT (3/4-NC X 7", GD8)	
9	316-841	1	HEX	
10	107-458	2	TIE BOLT	
11	105-953	2	LOCKNUT (3/4-NC)	
12	500-818	3	DOWEL PIN (16MM X 40MM)	
13	153-614	1	SEAL, V-RING	
14	117-541	1	SPRING	
15	301-8173	1	SPACER (20)	
16	302-8786	1	SEAL SPACER	SEE FOOTNOTE 12
17	215-2286	1	PROXIMITY SWITCH 12MM WP	
18	166-432	1	ISPEED SENSOR RING	
19	301-6213	1	SAVERLOK CONNECTION	SEE FOOTNOTE 6
20	105-1758	9	M16-2 X 150, 12.9 (SOC)	USE LOCTITE 242 OR EQUIVALENT, TORQUE TO 240 FT LBS
21	301-5732	1	SAVERLOK FLANGE	
22	107-723	9	SCREW (M16-2.00 X 70MM, SOC)	SEE FOOTNOTE 7
23	400-2169	1	SAVERLOK AT100/3.44	INCLUDES REF NO. 25, SEE FOOTNOTES 1 - 5
24	190-1163	1	INNER WATER SWIVEL REPLACEMENT KIT	SEE FOOTNOTES 10 & 11
25	157-030	1	O-RING (338 D90)	

NOT SHOWN:

400-1375 SAVER SUB SS AT100
 300-5735 SAVER SUB SS 3.25-4F
 400-2234 SAVER SUB (#800)
 400-2166 SAVERLOK JT100/3.27
 400-2256 SAVERLOK JT100/#800

FOOTNOTES:

1. AT100 CONVERSION TO JT100 SAVER SUB 300-5735
2. AT100 CONVERSION TO POWER PIPE FORGED SAVER SUB 400-2234
3. AT100 CONVERSION TO JT100 SAVERLOCK 400-2166.
4. AT100 CONVERSION TO POWER PIPE FORGED SAVERLOCK 400-2256.
5. AT100 SAVER SUB 400-1375.
6. DO NOT PLUG WEEP HOLES ON AT MACHINES.
7. APPLY HYDRAULIC OIL TO THREADS & TORQUE TO 240 FT LBS. IF HYDRAULIC OIL IS NOT AVAILABLE, TORQUE DRY TO 300 FT LBS.
LOCTITE 242 OR EQUIVALENT MAY BE USED IN PLACE OF HYDRAULIC OIL IF PREFERRED.
8. S/N BREAK CMWJT100EE0000188 & CMWAT100EE0000059. PRIOR TO S/N BREAK THE MODULAR BRAKE P/N WAS (160-458)
9. S/N BREAK CMWAT100LE0000060 & CMWJT100-----, PRIOR TO S/N BREAK HYD PISTON MOTOR P/N WAS (149-397)
10. 190-1163, INNER WATER SWIVEL REPLACEMENT KIT, INCLUDES INNER WATER SWIVEL 191-295 & PIN 105-1539, .156 X .500 GROOVED
11. 500-1939 SEAL REPAIR KIT IS THE REBUILD KIT FOR 191-295, INNER WATER SWIVEL.
12. ORIENT OPENINGS WITH PORTS ON SAVERLOK CONNECTION.

NOTE:



MAINTENANCE REQUEST FORM

UNIT# 114

HRS/KM 4011

DESCRIPTION OF REPAIRS REQUIRED

- SAVER SUB FS 2 (802)

- ALL SAVER SUB LOCK PARTS

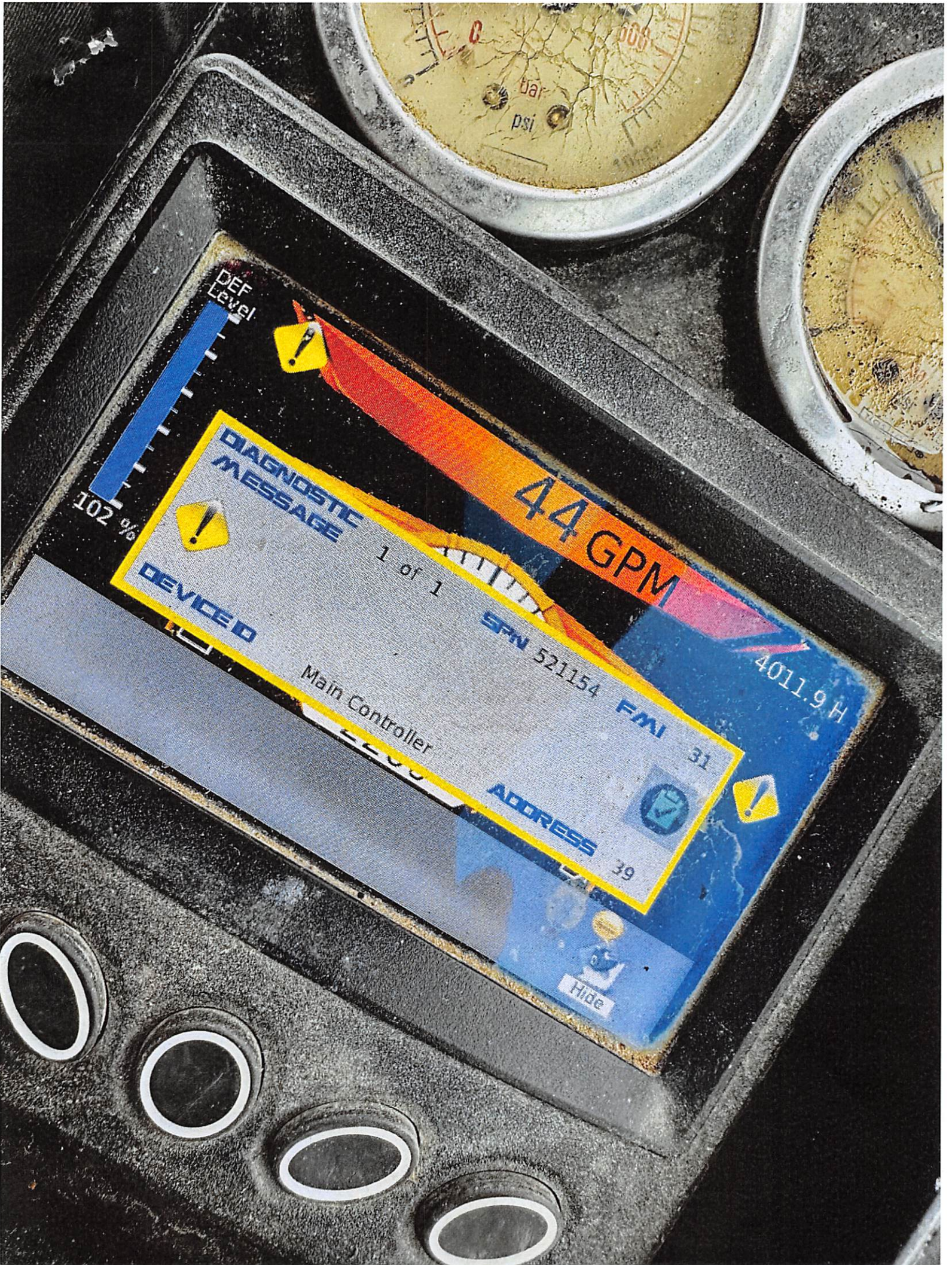
(BLOCK, COLLAR, BOLTS × 18)

- DIE RETAINERS $\frac{1}{2}$ BOLTS

- CODE 521154

REQUESTED BY:

DATE:



DEF Level

DIAGNOSTIC
MESSAGE

1 of 1

DEVICES

Main Controller

SPN 521154

FMI 31

ADDRESS 39

44 GPM

4011.9 H

Hide

DRILL

DEREK

Field Requisition Form for Tools, Parts, & Consumables

Information

 [no label]

114



Black rod 2410-007 DL



Monday, January 27th 2025, 10:27 AM (MST -07:00)

General Information

Date:



January 27, 2025

Location:



Wandering river

Job #



1

Site Supervisor:



Derik Lynch

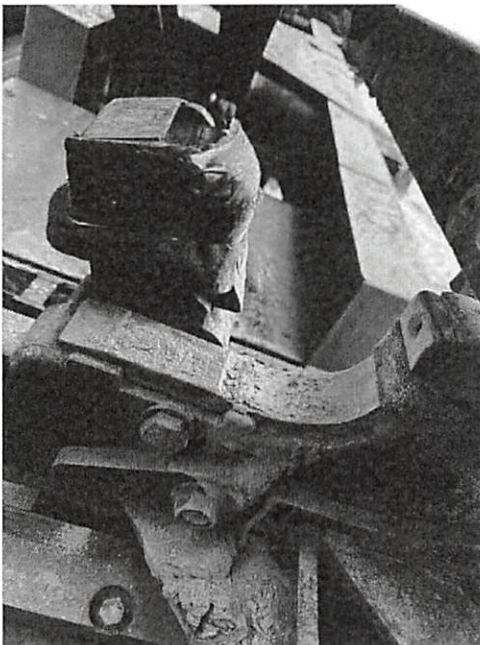
Item Details - List all items clearly

Tool/Part/Consumable Description



L shaped pad

BOOTS



2 ORDERED FROM HDD u/g

TUES JAN 28 in WW

NEW JOY STICK

Quantity: Number of Items Needed



2

Special Instructions (ie. Specific brand, model or usage details)

 None

Urgency of Request:

☒ Critical - Immediate attention needed

Comments or Delivery Instructions:

 To rig

Signatures

Worker Submitting the Request

 Derik Lynch

Site Supervisor

 Derik Lynch

Signatures

Derik Lynch, *Locator*

 January 27th 2025, 10:27 AM (MST -07:00)

 55.5698828, -112.3419958





MAINTENANCE WORK ORDER

Nº 2770

UNIT #: 114
ENGINE HOURS: 3899
MILEAGE: /
WORK LOCATION: F57
WORK REQUESTED: Kirk

ORDER DATE: Dec. 14/24
COMPLETED DATE: Dec. 16/24
JOB #: _____

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: Remove panels, wash engine compartment, replace fan drive motor, hydraulic line, replace hyd control line, replace oil filter remote lines, replace hydraulic pressure switch, replace engine oil filter + hyd oil filter

TECH COMMENTS: _____

LABOUR DESCRIPTION:	HOURS
<u>Dec. 14 David McDonald</u>	<u>5</u>
<u>Dec. 16 David McDonald</u>	<u>11</u>

ENTERED
DEC 21 2024

LABOUR TOTAL _____

PARTS & MATERIALS	P.O. #	QUANTITY	PRICE	AMOUNT
<u>Hydraulic + Engine Oil Filters</u>	<u>10993</u>			<u>\$200.09</u>
<u>Hydraulic Hoses/ Hydraulic Oil</u>	<u>10993</u>			<u>\$606.06</u>
<u>Pressure switch/cabinet keys</u>	<u>10994</u>			<u>\$559.80</u>

PARTS & MATERIALS TOTAL _____

WORK AUTHORIZED BY: Kirk WORK COMPLETED BY: Kirk/David
UNIT RETURNED TO SERVICE: Dec. 16/24 OVERALL CONDITION OF UNIT: Good

ADDITIONAL COMMENTS: _____



MAINTENANCE WORK ORDER

No 3153

UNIT #: 114

ENGINE HOURS: 3818

MILEAGE:

WORK LOCATION: Shop

WORK REQUESTED: Service, Repair, Upgrade

ORDER DATE: Nov, 26, 24

COMPLETED DATE: Nov, 26, 24

JOB #:

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: Shuttle System wear package, 500hr Service
Top Drive High install

TECH COMMENTS: Air Filter Box Extremely Hard to close

LABOUR DESCRIPTION:

HOURS

LABOUR TOTAL

PARTS & MATERIALS

P.O. # QUANTITY PRICE AMOUNT

Oil		15L		
Fuel Filter		1		
Fuel Strainer		1		
Oil Filter		1		
Air Filter		1		
Shuttle Pads		2		
Work High		1		

PARTS & MATERIALS TOTAL

WORK AUTHORIZED BY: Ron J

WORK COMPLETED BY: David McDonald

UNIT RETURNED TO SERVICE: YES

OVERALL CONDITION OF UNIT: OK

ADDITIONAL COMMENTS:



MAINTENANCE REQUEST FORM

UNIT# 104

HRS/KM 3818

DESCRIPTION OF REPAIRS REQUIRED

Oil Filter, Fuel Filter, Fuel Water
Separator, Shuttle Finger Pads
Light on Top drive

REQUESTED BY: David McDonald

DATE: Nov, 26, 24



MAINTENANCE WORK ORDER

Nº 3064

UNIT #: 114

ENGINE HOURS: BREAK OUT BOX

MILEAGE:

WORK LOCATION:

WORK REQUESTED:

ORDER DATE: AUG 6/2024

COMPLETED DATE: AUG 6/2024

JOB #:

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED:

TECH COMMENTS:

LABOUR DESCRIPTION: HOURS

LABOUR DESCRIPTION	HOURS
REBUILD BREAK OUT BOX	3
(REPAIR WIRING & HYD HOSES)	

LABOUR TOTAL 3 HRS

PARTS & MATERIALS	P.O. #	QUANTITY	PRICE	AMOUNT

PARTS & MATERIALS TOTAL

WORK AUTHORIZED BY: TROY P

WORK COMPLETED BY: BO ROUJ

UNIT RETURNED TO SERVICE: AUG 6/2024

OVERALL CONDITION OF UNIT: GOOD

ADDITIONAL COMMENTS:



MAINTENANCE WORK ORDER

Nº 2503

UNIT #: 114 A7100
ENGINE HOURS: 3389
MILEAGE: _____
WORK LOCATION: F3J Shop
WORK REQUESTED: Kirk

ORDER DATE: April 24/24
COMPLETED DATE: _____
JOB #: _____

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: Replace air filter, Remove cab-side Stake-down planetary for replacement wash/degrease

TECH COMMENTS: Needs row selector hyd cylinder replaced and Stake-down planetary replaced. See maintenance request form.

LABOUR DESCRIPTION:

HOURS

<u>Brandon</u>	<u>3</u>
<u>Jesse</u>	<u>2</u>
<u>Ben Colin</u>	<u>1</u>

LABOUR TOTAL _____

PARTS & MATERIALS

	P.O. #	QUANTITY	PRICE	AMOUNT
<u>NAPA air filter 500809</u>	<u>5748</u>	<u>1</u>		<u>1368.50</u>
<u>Napa air filter 500715</u>	<u>5748</u>	<u>1</u>		<u>115.02</u>
<u>Air filters recorded on WO#2754</u>				

PARTS & MATERIALS TOTAL _____

WORK AUTHORIZED BY: Kirk WORK COMPLETED BY: _____

UNIT RETURNED TO SERVICE: NO OVERALL CONDITION OF UNIT: Good

ADDITIONAL COMMENTS: See maintenance request form



MAINTENANCE WORK ORDER

Nº 2754

UNIT #: JT 100 AT #114

ENGINE HOURS: 3389

MILEAGE:

WORK LOCATION: Brothers HDD Shop Fort St John

WORK REQUESTED: Kirk

ORDER DATE: April 18/24

COMPLETED DATE: April 18/19, 2024

JOB #:

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: Drive planetary gear oil change, Mud pump oil change and planetary gear oil change, Thrust coat planetary gear oil change all Silt, Top Drive gear oil change, Anchor planetary gear oil change red side, Cab side needs inspection, no oil. Engine service oil change / oil Filter change / Fuel Filter change. Needs Air Filter replacement, Hydraulic Filter change

TECH COMMENTS: ~~Wash, grease and clear cab~~

LABOUR DESCRIPTION:

Chris S150

HOURS

10

LABOUR TOTAL

PARTS & MATERIALS

	P.O. #	QUANTITY	PRICE	AMOUNT
Fuel Filter NAPA 600564	Zame CC	1		90.18
Fuel water Separator FS1098 Fleetguard (kw)	Zame CC	1		100.56
Engine Oil Filter 7182 NAPA	Zame CC	1		29.68
Hydraulic oil Filter 1849 Napa x2	Zame CC	2	142.69	285.38
Hyd Pre-charge Filter 153-375 Dlv Brandt	5738	1		202.88
Air Filter 500715 NAPA	5748	1		368.50
Air Filter 500809 NAPA	5748	1		105.20

PARTS & MATERIALS TOTAL

WORK AUTHORIZED BY: Kirk

WORK COMPLETED BY:

UNIT RETURNED TO SERVICE: NO

OVERALL CONDITION OF UNIT: Good

ADDITIONAL COMMENTS: See maintenance request form



MAINTENANCE WORK ORDER

Nº 2027

UNIT #: 114ENGINE HOURS: 3323.8

MILEAGE: _____

WORK LOCATION: Fort St John Field

WORK REQUESTED: _____

ORDER DATE: March 7 2024COMPLETED DATE: March 7 2024

JOB #: _____

W.O. TYPE (Circle): PM CVIP ReactiveREPAIRS REQUIRED: Rig died Again.was on location trouble shot.
main Fuse panel Burnt up After market Fuse holder
Is also burning up Tightened connectionsTECH COMMENTS: Rig will need new Fuses holder and proper
Tie into of wires

LABOUR DESCRIPTION:

HOURS

3LABOUR TOTAL 3

PARTS & MATERIALS

P.O. # QUANTITY PRICE AMOUNT

PARTS & MATERIALS TOTAL _____

WORK AUTHORIZED BY: Con R WORK COMPLETED BY: Con F

UNIT RETURNED TO SERVICE: _____ OVERALL CONDITION OF UNIT: _____

ADDITIONAL COMMENTS: _____



MAINTENANCE WORK ORDER
Nº 7 2025

UNIT #: 114
ENGINE HOURS: 3281
MILEAGE: _____
WORK LOCATION: FSS Field
WORK REQUESTED: _____

ORDER DATE: Feb 26 2024
COMPLETED DATE: March 7 2024
JOB #: _____

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: unit keep shutting down
Anchor Drive Motor Broken.
Hydraulic lift Ran for left Anchor.

TECH COMMENTS: _____

LABOUR DESCRIPTION: _____ HOURS
Remove Anchor Planetary and Install new one. 14
Fill with oil Re Install Motor. Test O.K
Electrical Issue seems like Re key are getting hot
from the heater and tripping
Change Anchor lift cylinders.

LABOUR TOTAL 14

PARTS & MATERIALS	P.O. #	QUANTITY	PRICE	AMOUNT
<u>Boards Tractor</u>	<u>09 4949709</u>	<u>005465</u>		<u>392.95</u>
<u>Bolts and hoses</u>				
<u>Anchor drive.</u>	<u>90 1004744</u>	<u>005251</u>		<u>9620.55</u>
<u>lift Ram & Pins + Bolts</u>	<u>90 1004789</u>	<u>005292</u>		<u>2436.28</u>
<u>Value Bank Handle</u>	<u>90 1004789</u>	<u>005279</u>		<u>274.59</u>
<u>HOSES / BOLTS</u>	<u>90 4949709</u>	<u>00-5465</u>		<u>392.95</u>

PARTS & MATERIALS TOTAL 12,724.37

WORK AUTHORIZED BY: Coyf WORK COMPLETED BY: _____

UNIT RETURNED TO SERVICE: _____ OVERALL CONDITION OF UNIT: _____

ADDITIONAL COMMENTS: Anchor Base on Right side cracked out.
will Greet the machine shop to Make Templates for Fixing.



MAINTENANCE WORK ORDER

Nº 2014

UNIT #: 114
ENGINE HOURS: 3738
MILEAGE: _____
WORK LOCATION: F53
WORK REQUESTED: _____

ORDER DATE: Feb 17 2024
COMPLETED DATE: Feb 17 2024
JOB #: _____

W.O. TYPE (Circle): PM CVIP Reactive

REPAIRS REQUIRED: left Anchor will not go up

TECH COMMENTS: _____

LABOUR DESCRIPTION: _____ HOURS

Brooks lens Inside - will need to order new.
one has been ordered.
Brooks Planetary for anchor.
one has been ordered

LABOUR TOTAL 4

PARTS & MATERIALS	P.O. #	QUANTITY	PRICE	AMOUNT
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

PARTS & MATERIALS TOTAL _____

WORK AUTHORIZED BY: G. Rudy K WORK COMPLETED BY: C. R

UNIT RETURNED TO SERVICE: _____ OVERALL CONDITION OF UNIT: _____

ADDITIONAL COMMENTS: _____

MAINTENANCE WORK ORDER



~~REPLACE HUB PUMP PLANETARY FLUID~~

CAT TARP for PUMP

BUTTERFLIES

SPARE DIES

ECT. TRAIL

MAINTENANCE REQUEST FORM ^{TIGHTENED}

UNIT# 114

HRS/KM

SOME C BREAK UP.

- CUT OFF MIRROR

- CUT OFF SHARP

DESCRIPTION OF REPAIRS REQUIRED

EDGES ON
GUARD RAIL

BLOCKS — VISES

WELD ROD SIDE TRACK MOUNTS

*CHECK

SERVICE ALL PLANETARIES

ADJUST TRACKS (CAB SIDE CONDITION)

PLATE for ROD RETURN

A/F WATER
GUAGE

REMOVE 1/2 RAIL of DERRICK

LEAK @ COUPLER (HHD) FRONT

TEST PUMP

GREASE

SAVER SUB.

DOOR HINGES

FUNCTION EVERYTHING

SHORT ROD BASSET PINS (4)

REQUESTED BY:

~~HYDRAULICS 2 SECONDS after FUNCTION~~

DATE:

LUBE SHUTTLES ARM CHAINS

POSITIVE AIR SHUT OFF.

FIRE EXT

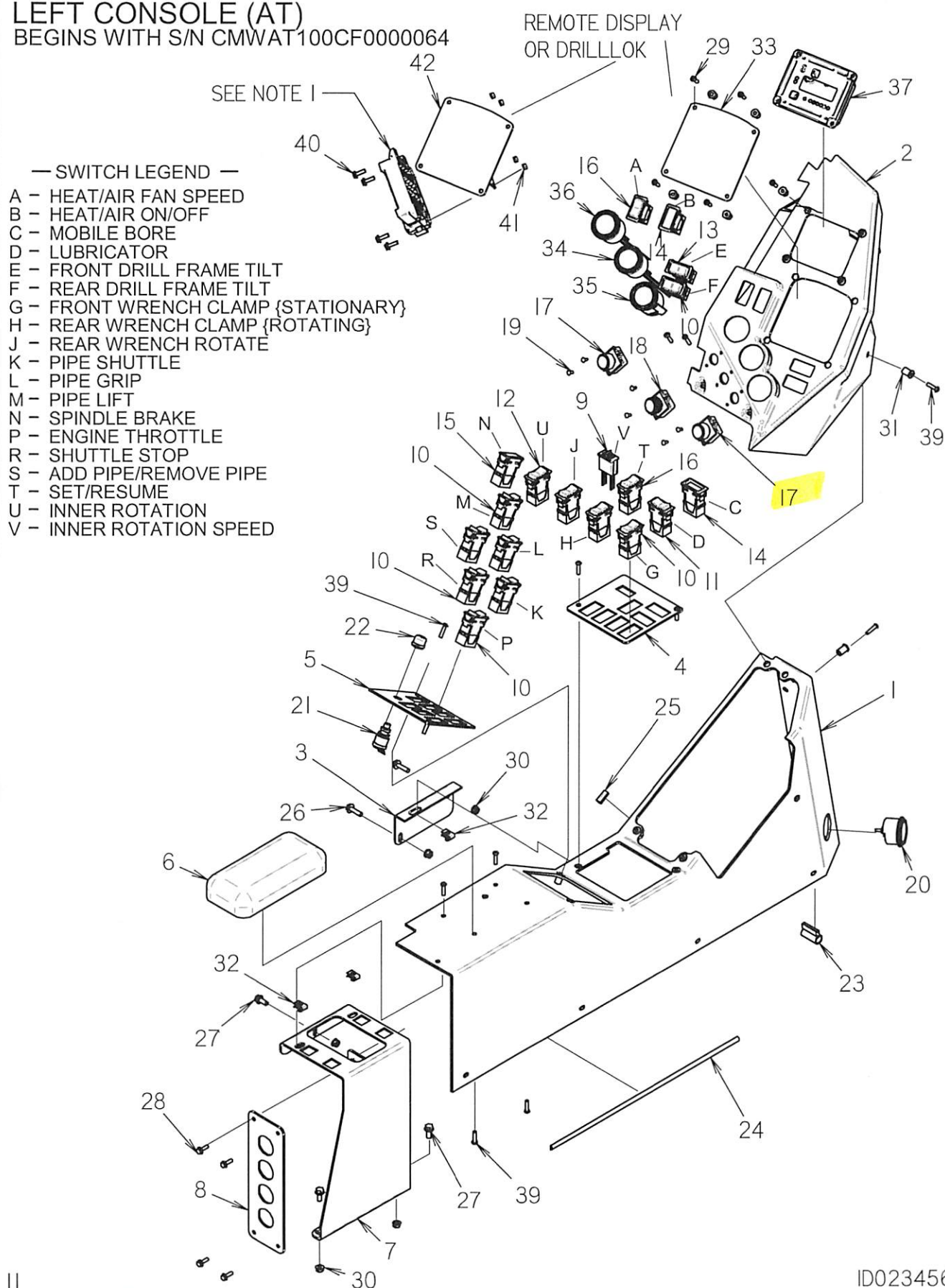
INSTALL RADIO/ANT'S

FUEL GUAGE
WEBERCO

PIPE DOPE

LEFT CONSOLE (AT)

BEGINS WITH S/N CMWAT100CF0000064



LEFT CONSOLE (AT)

BEGINS WITH S/N CMWAT100CF0000064

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-1351	1	LEFT CONSOLE	
2	362-1700	1	CONSOLE	
3	349-404	1	LEFT CONSOLE CENTER MOUNT	
4	300-8210	1	A/T FUNCTION PANEL	
5	303-931	1	LEFT REAR PANEL	
6	349-406	1	ARM REST PAD	
7	370-412	1	LEFT REAR MOUNT	
8	300-2584	1	SHEET, CONNECTOR PANEL	
9	215-1016	1	ROTATION DITHER SWITCH	
10	217-228	10	ROCKER SWITCH (DPDT) (ONI-OFF-(ONI)	
11	217-924	1	ROCKER SWITCH (DPDT) OFF-(ONI)	
12	217-912	1	ROCKER SWITCH (DPDT) ON-ON-ON	
13	217-921	1	ROCKER SWITCH (SPDT) (ONI-OFF-(ONI)	
14	217-923	2	ROCKER SWITCH (DPDT) (ONI-OFF-(ONI)	
15	217-918	1	ROCKER SWITCH (SPDT) ON-ON	
16	217-922	2	ROCKER SWITCH (SPDT) (ONI-ON-(ONI)	
17	214-566	2	POTENTIOMETER 	USE 242 LOCKTITE
18	211-089	1	4.5V-12.0V POTENTIOMETER	
19	110-560	6	POP RIVET (3/16" X 1/2", ALUM)	
20	215-2594	1	HOUR METER	
21	306-607	1	HORN BUTTON	
22	306-608	1	BUTTON COVER	
23	116-421	1	BULK EDGE (1/8", SOLD PER 1')	USE 1 @ 1.6"
24	116-724	1	BULK SEAL (3/32", SOLD PER FT)	USE 1 @ 21"
25	116-723	1	BULK EDGE (3/16", SOLD PER FT)	USE 1 @ 1" - USE 256-665 ADHESIVE 3M 1300 AS REQ'D
26	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
27	106-162	3	FLG SCREW (M8-1.25 X 20MM, GD8)	
28	106-379	4	FLG LK SCREW (M6-1.00 X 20MM)	
29	108-184	8	SCREW (M6-1.00 X 30MM, BUT SOC)	
30	106-386	5	FLG LOCKNUT (M8-1.25)	
31	107-871	15	WELLNUT (M6-1.00 X 20.35MM LG)	
32	106-574	3	CLIP NUT (M6-1.00)	
33	301-4737	1	COVER	
34	215-1561	1	SPINDLE TACHOMETER (300 RPM)	USE WITH 215-1786 (REQUIRED)
35	215-1785	1	PRESSURE GAUGE 6000 PSI	
36	211-053	1	SPINDLE TACHOMETER (250RPM)	
37	220-1222	1	ESID MODULE	
39	107-312	12	SCREW (M6-1.00 X 25MM, BUT SOC)	
40	106-161	4	FLG SCREW (M6-1.00 X 20MM)	
41	106-237	4	LOCKNUT (M6-1.00, PRV TRQ, NLK)	
42	301-8840	1	CONTROLLER MOUNT	USE FOR DrillLok™ Base, Basic Unit WHEN NOT USING REMOTE DISPLAY.

NOT SHOWN:

215-1786 1 GAUGE JUMPER

REQUIRED FOR USE WITH 215-1785

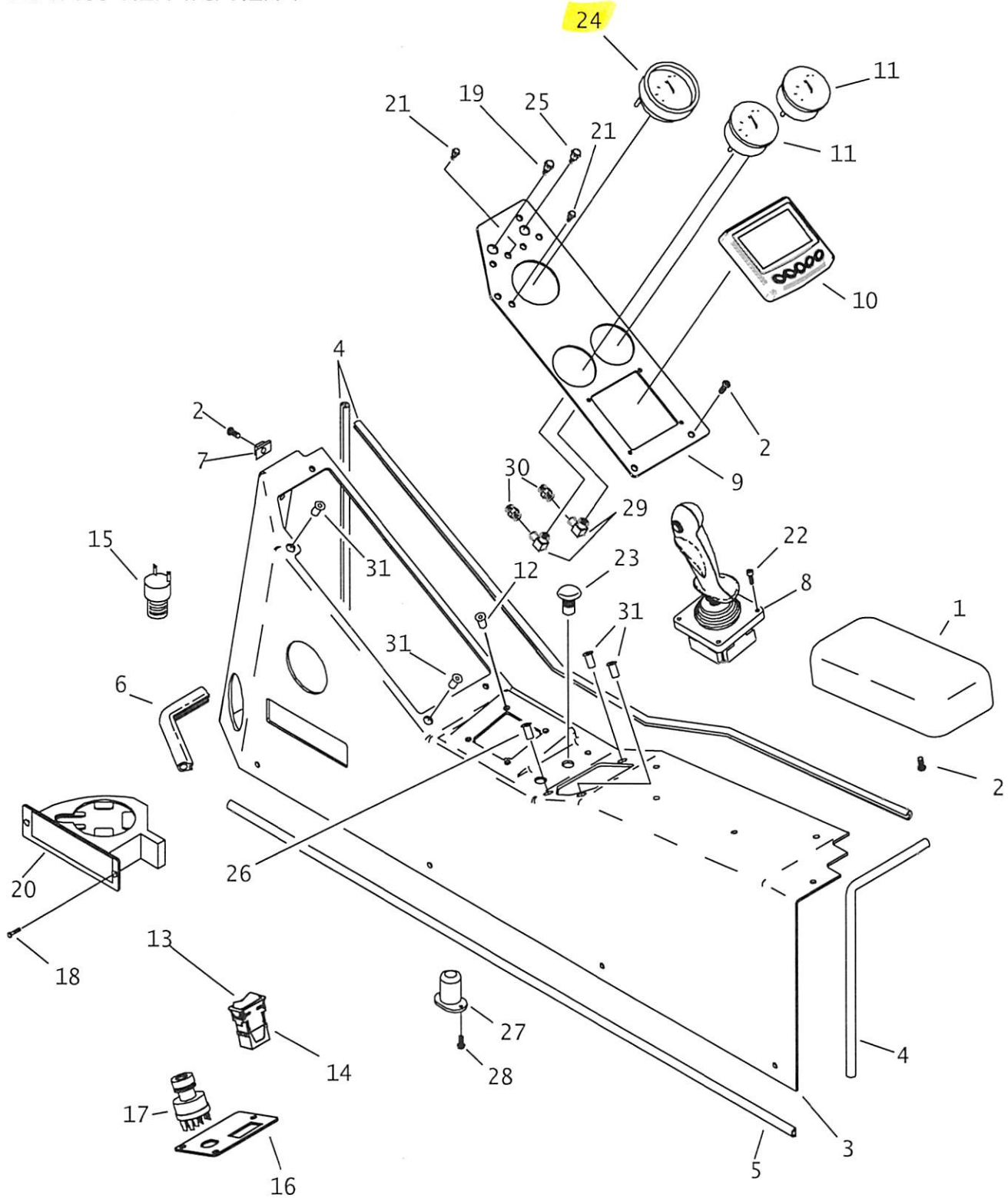
FOOTNOTES:

NOTE:

1. DrillLok™ Base, Basic Unit. USE 215-2288 RIG DISABLE HARNESS TO CONNECT.
2. USE DrillLok™ MOUNT KIT 195-2281 TO REPLACE REMOTE DISPLAY.

RIGHT CONSOLE

JT/AT100 TIER 4i & TIER 4



RIGHT CONSOLE

JT/AT100 TIER 4i & TIER 4

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	349-406	1	ARM REST PAD	
2.	107-312	20	SCREW (M6-1.00X25MM, BUT SOC)	
3.	306-914	1	RIGHT CONSOLE	
4.	116-723	AR	BULK EDGE (3/32", SOLD PER FT)	USE 1 @ 79"
5.	116-724	AR	BULK SEAL (3/32", SOLD PER FT)	USE 1 @ 42"
6.	116-421	AR	BULK EDGE (1/8", SOLD PER FT)	USE 1 @ 8"
7.	106-574	13	CLIP NUT (M6-1.00)	
8.	215-1224	1	DUAL AXIS HALL EFFECT JOYSTICK	SEE FOOTNOTES 1 & 2 FOR S/N BREAKS
	215-1714	1	DUAL AXIS JOYSTICK	SEE FOOTNOTE 2 FOR S/N BREAKS
9.	301-0804	1	RIGHT INSTRUMENT PANEL	
10.	220-2704	1	PV485 DISPLAY	
11.	217-079	2	PRESSURE GAUGE (10000 PSI)	
12.	107-358	4	WELLNUT (M4-0.7)	
13.	217-925	1	ROCKER SWITCH (ACTUATOR)	
14.	217-924	1	ROCKER SWITCH (DPDT) OFF-(ON)	
15.	306-603	1	AUDIO ALARM	
16.	303-934	1	RIGHT REAR PANEL	
17.	214-852	1	IGNITION SWITCH	
	214-961		KEY, PAIT (BASE CODE)	
	214-962		SWITCH MOUNTING NUT	
	214-963		LOCK PLUG W/1 KEY (BASE CODE)	
18.	107-327	2	SCREW (#10-24X1/2",CSK PLPS)	
19.	214-563	1	RED LED (12V)	
20.	349-416	1	CUP HOLDER	
21.	214-701	5	STATUS LIGHT	ENGINE STOP
22.	107-414	4	SCREW (M4-0.70 X 30MM BUT SOC)	
23.	217-206	1	BUTTON SWITCH (SPST)	FTST
24.	150-1444	1	PRESSURE GAUGE(2000 PSI) # 327.52	
25.	214-840	1	GREEN LED (12V DC)	
26.	107-871	5	WELLNUT (M6-1.00 X 20.35MM LG)	
27.	214-301	1	ACCESSORY SOCKET	
28.	106-058	2	BOLT (#6-32 X 1-1/8", RD SLT)	
29.	514-355	2	CONNECTOR (04NF-04NF90)	
30.	154-020	2	CONNECTOR (04N-04J)	

NOT SHOWN:

217-291 2 TERMINAL SOCKET
215-1787 1 JOYSTICK JUMPER

SEE FOOTNOTE 1

FOOTNOTES:

1. EARLIER MACHINES BEFORE S/N BREAK WILL NEED TO USE JOYSTICK JUMPER 215-1787 TO CONNECT OLDER HARNESS TO 215-1714 JOYSTICK.
2. ENDS WITH S/N: JT100LC0000072 AND BEGINS WITH S/N: CMWJT100HC0000073.
ENDS WITH S/N: AT100LB0000023 AND BEGINS WITH S/N: CMWAT100HC0000025.

NOTE: