

COWLEY COUNTY, KANSAS
Request for Board Action

Date: October 07, 2025

Requested By: Public Works

Action Requested: Consideration to approve the repair of the Winfield Shop front end loader with a remanufactured axle.

Analysis: The front axle differential gears on the 2005 John Deere 624J loader have failed. This loader was originally purchased new in December 2004 for \$116,700. The estimated total cost of maintenance over the course of ownership is approximately \$23,214.44.

Current repair options include:

- Rebuilding the existing axle at a cost of \$44,894.72, or
- Replacing the axle with a remanufactured unit for \$39,951.75.

The current market value of the loader is estimated to be between \$80,000 and \$119,000. Replacing it with a comparable used loader (4–7 years old, 1,000–3,000 operating hours) is estimated to cost between \$153,000 and \$213,000. A new 2025 John Deere 624 P-Series with basic options is priced at \$310,419.

Repair quotes were requested from Foley Equipment and Ark City Diesel. Foley declined to provide a quote, citing that their cost would exceed Murphy Tractor's due to parts sourcing. Ark City Diesel did not respond with a quote or a formal decline.

Fiscal Impact: \$39,951.75 if repaired with a remanufactured axle

- ☐ **Budgeted item with available funds**
- ☒ **Non-budgeted item available through reprioritization**
- ☐ **Non-budgeted item with additional funds requested**
- ☐ **Not Applicable**

Attachments:

- Quote for axle rebuild from Murphy Tractor.
- Quote for remanufactured axle from Murphy Tractor.



Murphy Tractor & Equipment Co., Inc.
 5255 N. Deere Rd
 Park City, KS 67219
 Phone: 316-942-1457
 Toll Free: 800-262-0139



*** PROFORMA INVOICE ***

Invoice To Account No: 1331008

Deliver To:

Quote Expires: 09/27/2025

SERVICE QUOTATION

COWLEY CO HWY DEPT WINFIELD JON JORDAN 311 E 9TH AVE WINFIELD KS 67156-2843 Bus Phone: (620)221-3150 Prv Phone: (316)221-3150	COWLEY CO HWY DEPT 406 W HILLTOP ARKANSAS CITY KS 67005 Bus Phone: (620)221-3150 Prv Phone: (316)221-3150	Invoice Number: Invoice Date: 08/28/2025 Location: 01 Work Order Number: 558516 Payment Type: Account Page: 1 of 4
Make/Model: JOHN DEERE 624J	Meter: 6561 Serial Number: DW624JZ595792	EQ Id: 7000W Fleet No:

624JH1005054 Retail

COMPLAINT:

01 FRONT AXLE COMPLETE, R&R AND RECONDITION1400 SERIES AXLE INCLUDES BRAKES

CAUSE:

CORRECTION:

Block machine.
 Apply park brake.
 Install frame lock bar and raise boom.
 Install:
 -Floor stands
 -Boom lock
 Relieve hydraulic tank pressure.
 Drain differential.
 Remove bottom frame guard.
 Disconnect lines (cap & plug).
 Disconnect drive line and remove wheels.
 Remove axle assembly from machine.
 Disassemble:
 -Axle
 -Differential
 -Brakes
 R&R worn parts.
 Assemble in reverse order.
 Fill with fluid.
 Test operations and check for leaks.

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
JD10127	Bearing Cone	1.00	219.77	\$219.77	N
JD10315	BEARING CONE	2.00	217.92	\$435.84	N
JD10316	BEARING CUP	2.00	101.60	\$203.20	N
JD8240	BEARING CUP	1.00	33.72	\$33.72	N
JD8254	Bearing Cup	1.00	117.27	\$117.27	N
JD8974	BEARING CO	1.00	60.64	\$60.64	N
JD9093	BEARING CO	1.00	403.52	\$403.52	N
JD9148	BEARING CU	1.00	207.51	\$207.51	N
R109082	NEEDLE ROLLER	1.00	1.84	\$1.84	N
R120236	Spring	3.00	13.89	\$41.67	N

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R132511	Piston	1.00	555.98	\$555.98	N
R132827	Pinion Shaft	1.00	284.69	\$284.69	N
R132828	Pinion Shaft	2.00	205.04	\$410.08	N
R132836	Hub	1.00	398.70	\$398.70	N
R133328	SPACER	1.00	66.98	\$66.98	N
R133377	Snap Ring	2.00	25.79	\$51.58	N
R133719	Thrust Washer	2.00	68.94	\$137.88	N
R133725	Thrust Washer	1.00	73.23	\$73.23	N
R133798	Housing	1.00	3,985.23	\$3,985.23	N
R133803	Cover	1.00	1,317.53	\$1,317.53	N
R133858	Bevel Gear	1.00	1,491.06	\$1,491.06	N
R133859	Bevel Gear	1.00	1,205.66	\$1,205.66	N
R134016	Clutch Plate	8.00	69.60	\$556.80	N
R134017	Clutch Plate	1.00	969.12	\$969.12	N
R134172	Nut	2.00	256.05	\$512.10	N
R134183	Cap Screw	20.00	8.71	\$174.20	N
R134717	SHIM	1.00	5.04	\$5.04	N
R134718	Shim	1.00	7.71	\$7.71	N
R134719	SHIM	1.00	9.35	\$9.35	N
R134720	SHIM	1.00	7.47	\$7.47	N
R134721	Shim	1.00	8.01	\$8.01	N
R134722	Shim	1.00	10.49	\$10.49	N
R134726	PINION	4.00	184.16	\$736.64	N
R156897	SEAL	2.00	73.89	\$147.78	N
R156898	SEAL	2.00	51.05	\$102.10	N
R156899	SEAL	1.00	61.51	\$61.51	N
R156900	SEAL	1.00	64.16	\$64.16	N
R159757	Tee Fitting	1.00	114.13	\$114.13	N
R161862	PLATE	6.00	130.11	\$780.66	N
R161863	Wear Plate	12.00	163.41	\$1,960.92	N
R163172	BEARING CO	1.00	96.57	\$96.57	N
R163180	SHIELD	1.00	30.13	\$30.13	N
R163181	SHIM	3.00	6.96	\$20.88	N
R163182	SHIM	3.00	5.88	\$17.64	N
R163183	SHIM	3.00	7.38	\$22.14	N

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R163333	SPACER	1.00	50.80	\$50.80	N
R166218	Piston	1.00	217.57	\$217.57	N
R37410	SEAL	1.00	44.57	\$44.57	N
R45197	SHIM	3.00	4.22	\$12.66	N
R45198	SHIM	3.00	4.95	\$14.85	N
R45199	SHIM	3.00	4.92	\$14.76	N
R45200	SHIM	3.00	5.97	\$17.91	N
R57254	Needle Roller	3.00	9.80	\$29.40	N
R59460	THRUST WASHER	4.00	18.53	\$74.12	N
R70112	THRUST WASHER	4.00	6.21	\$24.84	N
R70113	THRUST WASHER	4.00	5.51	\$22.04	N
R70115	NEEDLE ROLLER	104.00	0.43	\$44.72	N
R89581	SEAL	1.00	25.06	\$25.06	N
RE159198	DISK WITH INNER SPLINE	4.00	121.01	\$484.04	N
RE159199	Brake Disk	8.00	120.37	\$962.96	N
RE163174	Ring Gear And Pinion	1.00	5,819.56	\$5,819.56	N
RE46684	Fitting Plug	3.00	9.11	\$27.33	N
RE68730	Needle Bearing	1.00	141.33	\$141.33	N
RE69025	Disk	9.00	85.59	\$770.31	N
YZ120453	SEAL	2.00	554.49	\$1,108.98	N
YZ120622	O-RING	1.00	17.89	\$17.89	N
YZ120623	O-RING	1.00	11.33	\$11.33	N
YZ121448	Half Axle	2.00	4,222.08	\$8,444.16	N
YZ121460	Bearing Cup	2.00	103.67	\$207.34	N
YZ121461	Bearing Cone	2.00	184.53	\$369.06	N

Miscellaneous Charges:

Service Accessories \$250.00

Labor: \$7,568.00 Parts: \$37,076.72 OL&M: \$0.00 Misc: \$250.00 Sub-Total: \$44,894.72

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WINFIELD KS 67156-2843

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Prv Phone: (316)221-3150

COWLEY CO HWY DEPT
406 W HILLTOP
ARKANSAS CITY KS 67005

Bus Phone: (620)221-3150
Prv Phone: (316)221-3150

Invoice Number:

Invoice Date 08/28/2025

Location: 01

Work Order Number: 558516

Payment Type: Account

Page: 4 of 4

Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 624J

6561

DW624JZ595792

7000W

Please remit payments to Murphy Tractor at the address shown on your monthly statement.

Customer PO No:

Tax Exempt No: GOVT

Advisor: JARED DICK

Labor: \$7,568.00

Parts: \$37,076.72

OL&M: \$0.00

Misc: \$250.00

Sales Tax: \$0.00

Total: \$44,894.72

TERMS AND CONDITIONS

Received by:

Date:



Murphy Tractor & Equipment Co., Inc.
5255 N. Deere Rd
Park City, KS 67219
Phone: 316-942-1457
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406 W HILLTOP
ARKANSAS CITY KS 67005

Bus Phone: (620)221-3150
Prv Phone: (316)221-3150

Invoice Number:

Invoice Date 08/28/2025

Location: 01

Work Order Number: 558105

Payment Type: Account

Page: 1 of 1

Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 624J

6561

DW624JZ595792

7000W

624JF1005168 Retail

COMPLAINT:

01 FRONT AXLE ASSEMBLY, REPLACE

THIS IS AN ESTIMATE ONLY, PARTS AND LABOR ARE SUBJECT TO CHANGE DUE TO UNFORSEEN CIRCUMSTANCES

CAUSE:

CORRECTION:

001. NOTE: IF EQUIPPED WITH FRONT BOTTOM GUARD INCLUDE JOB NO. 1746A022

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
AR69444	HY-GARD TM	1.00	111.61	\$111.61	N
PG200148	Front Axle Reman	1.00	36,343.74	\$36,343.74	N
PG200148-CR	CORE for:Front Axle Reman	1.00	2,000.00	\$2,000.00	N
TY6354	HY-GARD 1G	1.00	24.08	\$24.08	N

Miscellaneous Charges:

Service Accessories

\$96.32

Labor: \$1,376.00 Parts: \$38,479.43 OL&M: \$0.00 Misc: \$96.32 Sub-Total: \$39,951.75

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Customer PO No:
Tax Exempt No: GOVT
Advisor: JARED DICK

Labor: \$1,376.00
Parts: \$38,479.43
OL&M: \$0.00
Misc: \$96.32
Sales Tax: \$0.00
Total: \$39,951.75

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Received by:

Date: