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Euclid

Service Manual

3UDT, 3, 4, 6, 7UOT

S-7, TS-14 + Tandem

Volume 1 of 2

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EU-S-3UDT+

Service Manual

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MAINTENANCE MANUAL

FOR

MODELS 3UDT

3, 4, 6, 7UOT

(S-7, TS-14, TANDEM TS-14)

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Published by

THE SERVICE DEPARTMENT

EUCLID

DIVISION OF GENERAL MOTORS

Hudson, Ohio

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MAINTENANCE MANUAL

SECTION INDEX FOR "UDT & UOT" MODELS

3, 4, 6 & 7

SCRAPER REAR DUMP

For your convenience and to facilitate the locating of the major sections in this manual, the first page of each section is imprinted with a black square in a position corresponding to the section position as listed on this page. To use the rapid index, hold the bound edge of the manual with the left hand and spread unbound pages with right thumb until square is located corresponding to index position of section desired. Then let pages escape under the right thumb until desired section is reached.

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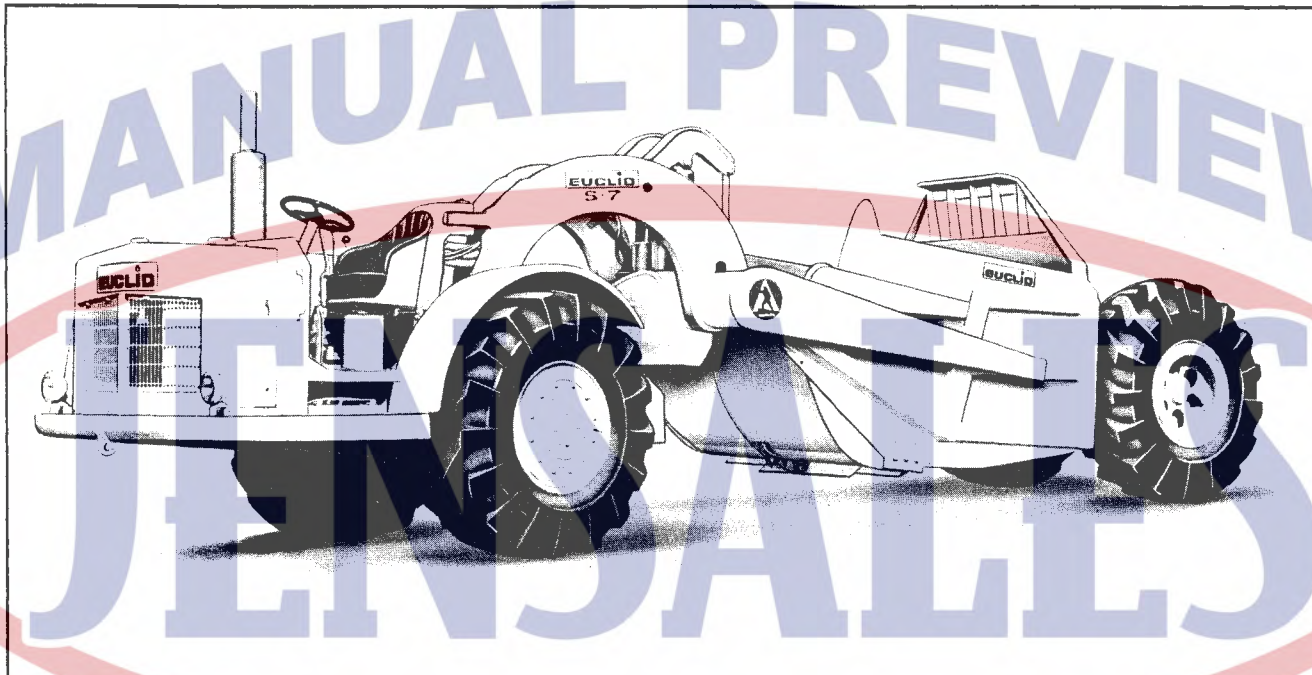
**GENERAL INFORMATION****4 UOT TRACTOR & 26 SH SCRAPER**

Fig. 1 - Model View of 4 UOT & 26SH (S-7)

L-6056

4UOT TRACTOR**ENGINE**

Euclid G.M. Diesel, Two Cycle	4-71
Rated Horsepower at 2100 R.P.M.	148
Maximum Torque at 1400 R.P.M. ...	396 Ft. Lbs.
No. of Cylinders	4
Bore and Stroke	4-1/4" x 5"
Total Displacement	284 Cu. In.
Lubrication	Pressure Feed
Flywheel Housing Size	No. 1 S.A.E.
Type of Governor	Limiting Speed
Full Load (R.P.M.)	2100
Low Idle (R.P.M.)	500
Maximum No Load (R.P.M.)	2240

FILTERS

Lube Oil:	
Full Flow Type	AC
By-Pass Type	AC
Fuel Oil - Full Flow:	
Primary	Commercial
Secondary	AC
Air Cleaner (Engine)	Donaldson Dry Type
Transmission, Full Flow Type	AC

COOLING SYSTEM

Radiator	Copper Core, Fabricated Shell, Flat Tube & Fin
Frontal Area	822 Sq. In.
Water Pump	Centrifugal Type
Fan	26" Diameter, 6 Blade, Belt Drive

TORQMATIC CONVERTER

Make	Allison
Model	400 Series
Mounting	Integral with Transmission
Maximum Torque Multiplication	3:1

TORQMATIC TRANSMISSION

Make	Allison
Model	CT-3340 or 3341
Gearing	Planetary
Speeds	4 Forward, 2 Reverse
Control	Controlex Control to Selector Valve for Hydraulic Shift



GENERAL INFORMATION

TRANSFER CASE

Make Euclid
 Gearing Spur Type, Constant Mesh
 Reduction (Approx.) 1:1

DRIVE LINES

Engine-to-Converter Almetal
 Transfer Case-to-Differential Almetal

DIFFERENTIAL

Make and Model Eaton, 2590-S
 Type Spiral Bevel Pinion and Ring Gear
 with Silent No-Spin Over Running Clutch
 Reduction 3.78:1

DRIVE AXLE

Make and Model Euclid, 63RA
 Type Full Floating
 Reduction 4.58:1
 Mounting Rigid

TIRES

Size 18:00 x 25 - 12 Ply
 Rim Size 15:00

BRAKES

Service:

No. of Wheels 2
 Type 2 Shoe, Internal Expanding
 Actuation Air
 Lining Size 17-1/4" x 5-1/2" x 3/4"
 Total Lining Area 420 Sq. In.
 Air Compressor 7-1/4 Cu. Ft.

STEERING SYSTEM

Steering Gear:
 Make Ross or Saginaw

Type Cam & Lever or Recirculating Ball
 Steering Booster:
 Make Euclid
 Type Double Acting, Single Stage

ELECTRICAL SYSTEM

Type 12 Volt Grounded
 Battery 12 Volt
 Cranking Motor 12 Volt
 Generator 12 Volt
 Accessories 12 Volt

HYDRAULIC SYSTEM

Pump (Early Units)

Make Commercial, Tandem
 Model PH378BAOR20-7BON15-1
 Type Gear
 Capacity (Steering System) 30.1 GPM at
 1800 RPM and 1500 PSI
 Capacity (Hydraulic System) 40.3 GPM at
 1800 RPM and 1500 PSI
 Drive Directly Off Engine PTO

Pump (Current Units)

Make Commercial, Tandem
 Model P37X278BYRM17-7BRL12-1
 Type Gear
 Capacity (Steering System) 29 GPM at
 1800 RPM and 1500 PSI
 Capacity (Hydraulic System) 39.5 GPM at
 1800 RPM and 1500 PSI
 Drive Directly Off Engine PTO

Control Valve:

Make & Model Hydreco or Parker
 Controls Bowl, Apron & Ejector

POWER TAKE-OFF

Make Euclid
 Location Engine Flywheel Housing

26SH SCRAPER

BOWL

Make and Type.. Euclid, Hydraulic Lever Operated
 Capacity - Struck 7 Cu. Yds.
 - Heaped (3:1 Slope) 8 Cu. Yds.
 - Heaped (1:1 Slope) 9 Cu. Yds.

BRAKES

Service:

No. of Wheels 2
 Type 2 Shoe, Internal Expanding
 Actuation Air
 Lining Size 17-1/4" x 5-1/2" x 3/4"
 Total Lining Area 420 Sq. In.

TIRES

Size 18:00 x 25 - 12 Ply
 Rim Size 15:00

HYDRAULIC EQUIPMENT

Bowl Hoists:

No. of Hoists 2
 Make Euclid

Apron Hoists:

No. of Hoists 1
 Make Euclid



GENERAL INFORMATION

Ejector Hoists:

No. of Hoists 1
Make Euclid

HITCH

Make Euclid
Type Steering Pivot

WEIGHTS

Distribution of Total Weight:

Tractor Drive Axle 18,300 Lbs.
Scraper Axle 8,200 Lbs.
Payload 21,000 Lbs.
Total Gross Weight 47,500 Lbs.

Distribution of Total Gross Weight:

Tractor Drive Axle 26,125 Lbs.
Scraper Axle 21,375 Lbs.
Total 47,500 Lbs.

SERVICE CAPACITIES

COMPONENT	CAPACITIES
Cooling System	9.1 Gal.
Fuel Tank	60 Gal.
Crankcase (Dry Fill)	15 Qts.
Transmission & Transfer Case	6 Gal.
Drive Axle, Diff. & Planetaries	31 Lbs.
Hydraulic Tank	25 Gal.
Steering Gear	1/2 Pt.
Power Take-Off	1 1/4 Pt.

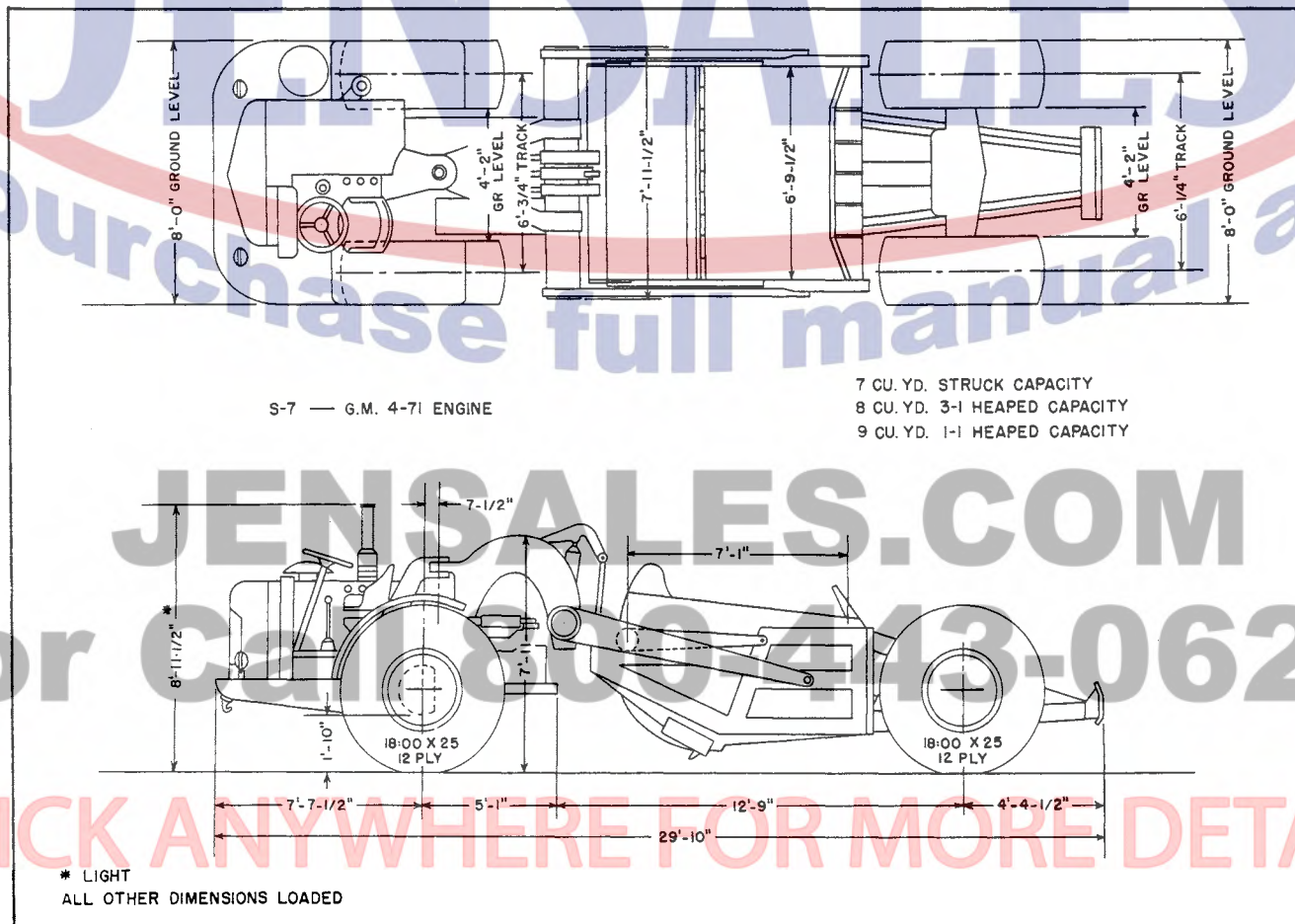


Fig. 2 - Dimensional Drawing For 4UOT & 26SH (S-7)

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SECTION 1

Page 1

GENERAL
INFORMATION

GENERAL INFORMATION

7UOT & 61SH TWIN POWERED SCRAPER

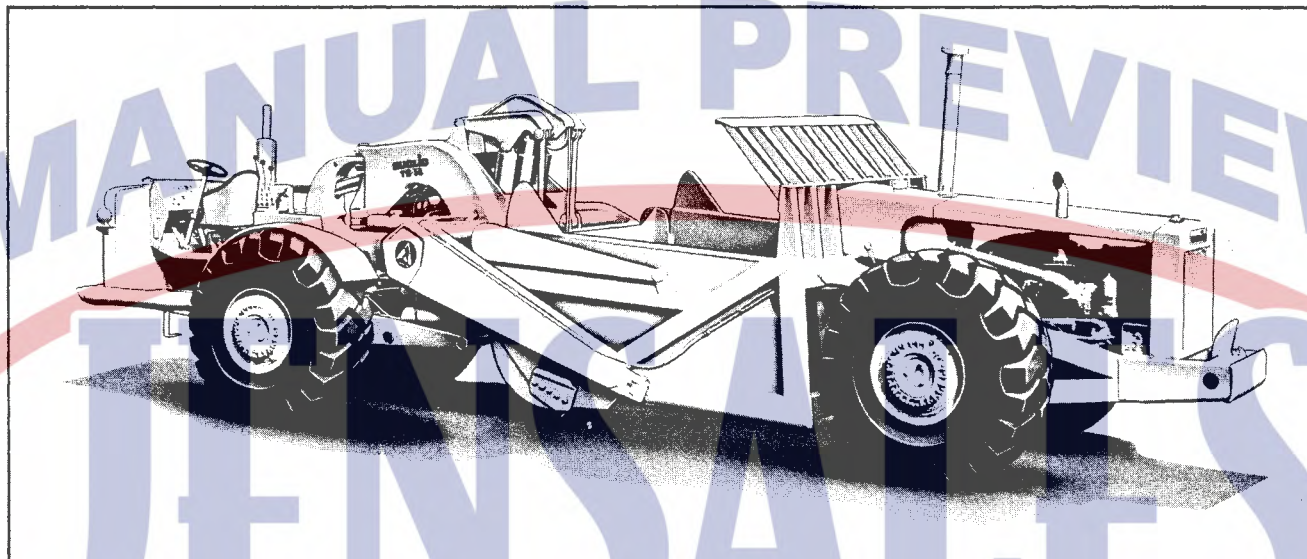


Fig. 1 - Model View of 7UOT & 61SH (TS-14)

L-6057

7UOT TRACTOR

ENGINE

Euclid G.M. Diesel, Two Cycle 4-71
Rated Horsepower at 2100 RPM 148
Maximum Torque at 1400 RPM 396 Ft. Lbs.
No. of Cylinders 4
Bore and Stroke 4-1/4" x 5"
Total Displacement 284 Cu. In.
Lubrication Pressure Feed
Flywheel Housing Size No. 1 S.A.E.
Type of Governor Limiting Speed
Full Load (R.P.M.) 2100
Low Idle (R.P.M.) 650
Maximum No. Load (R.P.M.) 2240

COOLING SYSTEM

Radiator Copper Core, Fabricated Shell,
Flat Tube & Fin
Frontal Area 784 Sq. In.
Water Pump Centrifugal Type
Fan 28" Diameter, 6 Blades, Belt Drive

TORQMATIC CONVERTER

Make and Model Allison, 400 Series
Mounting Integral with Transmission
Maximum Torque Multiplication 3:1

FILTERS

Lube Oil:
Full Flow A.C.

Fuel Oil:
Primary A.C.
Secondary A.C.

Transmission A.C.
Air Cleaner (Engine) Donaldson Dry
Air Type

TORQMATIC TRANSMISSION

Make and Model Allison, CLT-3341
Gearing Planetary
Speeds 4 Forward, 2 Reverse
Control Air Shift

TRANSFER CASE

Make Euclid
Gearing Spur Type, Constant Mesh
Reduction (Approx.) 1:1



GENERAL INFORMATION

DRIVE LINES

Engine-to-Converter Spicer
Transfer Case-to-Differential Spicer

DIFFERENTIAL

Make and Model Eaton, 3910
Type Spiral Bevel Pinion and Ring Gear
Reduction 4.11:1

DRIVE AXLE

Make Euclid
Type Full Floating
Reduction 5.33:1
Mounting Rigid

TIRES

Size 29.5 x 25 - 22 Ply
Rim 17.00

BRAKES

Service:
No. of Wheels 2
Type 2 Shoe, Internal Expanding
Actuation Air
Total Lining Area 536 Sq. In.
Air Compressor 7-1/4 Cu. Ft.

STEERING SYSTEM

Steering Gear:
Make Saginaw
Type Recirculating Ball
Steering Boosters:
Make Euclid
Type Double Acting, Single Stage

ELECTRICAL SYSTEM

Type 12 Volt Grounded
Battery 12 Volt
Cranking Motor 12 Volt
Generator 12 Volt
Accessories 12 Volt

HYDRAULIC SYSTEM

Pump
Make Commercial, Tandem
Model P37X278BYRU20-7BRL12-1
Type Gear
Capacity - Steering 39.5 G.P.M. at
1800 R.P.M. & 1500 P.S.I.
- Hydraulic 47 G.P.M. at
1800 R.P.M. & 1500 P.S.I.
Drive Directly off Engine P.T.O.
Control Valve:
Make Hydreco
Controls Bowl, Apron & Ejector

POWER TAKE-OFF

Make Euclid
Location Engine Flywheel Housing

61SH SCRAPER

ENGINE

Euclid G.M. Diesel, Two Cycle 4-71
Rated Horsepower at 2100 RPM 148
Maximum Torque at 1400 RPM 396 Ft. Lbs.
No. of Cylinders 4
Bore and Stroke 4-1/4" x 5"
Total Displacement 284 Cu. In.
Lubrication Pressure Feed
Flywheel Housing Size No. 1 S.A.E.
Type of Governor Limiting Speed
Full Load (R.P.M.) 2100
Low Idle (R.P.M.) 650
Maximum No. Load (R.P.M.) 2240

FILTERS

Lube Oil:
Full Flow A.C.
Fuel Oil:
Primary A.C.
Secondary A.C.
Transmission A.C.
Air Cleaner (Engine) Donaldson Dry
Air Type

COOLING SYSTEM

Radiator Copper Core, Fabricated Shell,
Flat Tube & Fin
Frontal Area 784 Sq. In.
Water Pump Centrifugal Type
Fan 28" Diameter, 6 Blades

TORQMATIC CONVERTER

Make and Model Allison, 400 Series
Mounting Integral with Transmission
Maximum Torque Multiplication 3:1

TORQMATIC TRANSMISSION

Make and Model Allison, CLT-3341
Gearing Planetary
Speeds 4 Forward, 2 Reverse
Control Air Shift

TRANSFER CASE

Make Euclid
Gearing Spur Type, Constant Mesh
Reduction (Approx.) 1:1



GENERAL INFORMATION

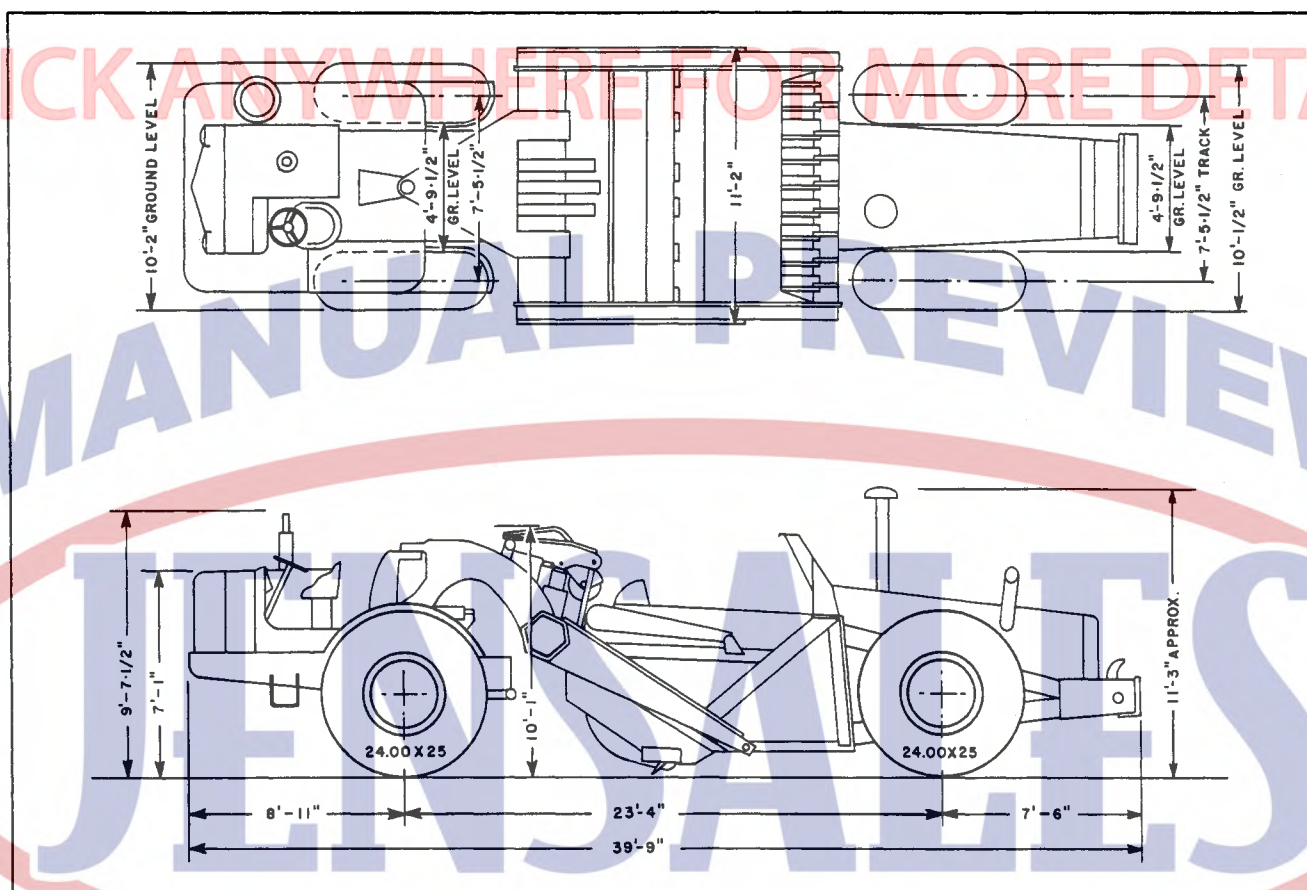


Fig. 2 - Dimensional Drawing of 7UOT & 61SH (TS-14)

L- 4480

DRIVELINES

Engine-to-Converter Spicer
Transfer Case-to-Differential Spicer

DIFFERENTIAL

Make and Model Eaton, 3910
Type Spiral Bevel Pinion and Ring Gear
with Silent No Spin
Reduction 4.11:1

DRIVE AXLE

Make Euclid
Type Full Floating
Reduction 5.33:1
Mounting Rigid

TIRES

Size 29.5 x 25 - 22 Ply
Rim 17.00

BRAKES

Service:
No. of Wheels 2
Type 2 Shoe, Internal Expanding
Actuation Air
Total Lining Area 536 Sq. In.
Air Compressor 7-1/4 Cu. Ft.

ELECTRICAL SYSTEM

Type 12 Volt Grounded
Battery 12 Volt
Cranking Motor 12 Volt
Generator 12 Volt

HYDRAULIC SYSTEM

Bowl Jacks:
No. of Jacks 2
Make Euclid
Apron Jacks:
No. of Jacks 1
Make Euclid
Ejector Jacks
No. of Jacks 1
Make Euclid