



STEAM LOCOMOTIVES. ACCOUNT NO. 51.

ER. P-1911, GR-10  
VAL. GR. L-55.

Form 7310 4200 RP

Northern Pacific Ry. Co's Class **S** I. C. C. Class **4-6-0** Service **Freight** Number **164**

## LOCOMOTIVE DATA

Original Number **164**  
 Renumbered from \_\_\_\_\_ to \_\_\_\_\_ Date \_\_\_\_\_  
 " " " " " "  
 Builder **Schenectady Loco. Wks.** Builders No. **4731**  
 Date Built, Month **Apr.** Year **1898.**  
 From whom purchased **Schenectady Loco. Wks.**  
 Purchased New or Second Hand **New** Date **4-3-98.**  
 Authority No. \_\_\_\_\_ Voucher No. \_\_\_\_\_ Reqn. No. \_\_\_\_\_  
 Receiving Station **St. Paul, Minn.** Date **5-10-98.**  
 Setting up Shop **Brainerd, Minn.**  
 Boiler Type **Ext. Wagon top, rad. stay** O. D. First Ring **70"**  
 Flues, No. **376** Outside Dia. **2"** Length **13'10"**  
 Steam Pressure, Maximum **200#** Working **200#**  
 Firebox, Type **Narrow** Length **120-3/16"**  
 Width, Top **65"** Bottom **41"**  
 Height, Front **84"** Back **71 1/2"**  
 Grate Area **34.2 sq. ft.** Oil Burner, Type \_\_\_\_\_ Size \_\_\_\_\_  
 Combustion Chamber, Length **None**  
 Arch Tubes, No. **4** Size **3"**  
 Superheater, Kind **None**  
 Feedwater Heater, Kind **None** Reheater, Kind **None**  
 Heating Surface Tubes **2,707 sq. ft.** Flues \_\_\_\_\_  
 Firebox **208 sq. ft.** Arch Tubes **32 sq. ft.**  
 Superheating Total Equivalent **2,947 sq. ft.**  
 Cylinders H. P., Dia., **22"** L. P. Dia., **34"** Stroke **28"**  
 Drivers—Dia. over New Tires **63"**  
 Driving Wheel Centers, Kind **Cast Steel** Dia. **56"**  
 Wheels, Leading Truck, Kind **Steel Tired** Dia. **30"**  
 Wheels, Trailing Truck, Kind \_\_\_\_\_ Dia. \_\_\_\_\_  
 Wheel Base, Rigid **14'10"** Total **26'3 1/2"**

Weight on Drivers **131,800 lbs.**  
 Weight of Engine, Working Order **173,800 lbs.** Light **152,500 lbs.**  
 Tractive Power I. C. C. Formula **28.7**  
 TENDER, Type **U-Shape,** Number **16-C-22**  
 (Tender shown is one purchased with this locomotive)  
 Capacity, Water, Gals. **4,350** Oil, Gals. \_\_\_\_\_ Coal, Tons **9**  
 Underframe, Kind **Steel** End Sills, Kind **Wood**  
 Wheels, No. **8** Kind **Cast Iron** Dia. **33"**  
 Journals, Size **4 1/4" x 8"** Trucks, Kind **Arch Bar**  
 Air Brake Cylinder, Size **10" x 12"** Coal Pusher, Kind **None**  
 Weight, Light **38,200 lbs.** Loaded **92,450 lbs.**  
 Weight Engine and Tender, Light **190,700 lbs.** Loaded **256,250 lbs.**  
 APPURTENANCES  
 Headlights, No. **1** Kind **Pyle - Electric**  
 Main Valve, Kind **Slide** Dia. (If piston) \_\_\_\_\_  
 Valve Gear, Kind **Stephenson** Driver Brake, Kind **Am. Equal.**  
 Air Brake Equipment, Kind **Westinghouse** Schedule **A-1, S.W.A.**  
 Air Pumps, No. **1** Make **Westinghouse** Size **9 1/8"**  
 Air Reservoirs, No. **2** Size **22 1/2" x 51"**  
 Train Signals, Kind **West. Air** Sanders, Kind **Leach E & Hand**  
 Stoker, Kind **None** Power Reverse, Kind **None**  
 Flange Lubricators, Kind **None**  
 Pneumatic Fire Doors, Kind **None**  
 Automatic Bell Ringers, Kind **Gollmar**  
 Couplers, Kind, Engine **Tower 6" x 6"** Tender **Sharon 5" x 5"**

## FINAL DISPOSITION

By **RETIRED** Place **5062-27** Date **5-27**

Original Cost F. O. B. Chicago, Ill. 12 079 34  
 Receivership Value \_\_\_\_\_  
 Designing and Engineering \_\_\_\_\_  
 Inspection during Construction \_\_\_\_\_  
 Inspection of Material \_\_\_\_\_  
 Messenger Service \_\_\_\_\_  
 Setting up and breaking in ( 68 39  
 Miscellaneous, Tools, etc. ( \_\_\_\_\_  
 Freight paid from Chicago to St. Paul 78 00  
 Total 12 225 73

DEPRECIATION-ENGINE 86.7% = 12,131.16  
 DEPRECIATION-TENDER 14.7% = 1,974.84  
 ENG'R. REPORT 14,106.00  
 DEPRECIATION BASED ON { Original Cost } PLUS IMPROVEMENTS  
 { Receivership Value } NP164

ADDITION AND BETTERMENT

A. F. E. No.	Date	Description	
845-10	7-11	Electric headlights	224 18
846-11	5-15	Safety appliances	5 44
925-16	8-17	Back stop on pilot steps	1 43
5079-21	5-22-22	AL-156 Water Crane Hooks	1 74
<del>511-27</del>	<del>5-19-22</del>	<del>Hand tools in stow</del>	
5152-23	7-26	AL-18. Signal Equip removed	3340
5062-27	5-27	Retired Eng portion	< 10,745.18 >
5110-27		Retiremen Value	3340
5000-46	3-15-46	TENDER DISMANTLED	< 1713.34 >

DEPRECIATION- R+E -ENGINE			DEPRECIATION- R+E -TENDER		
Rate	Period	Amount	Rate	Period	Amount
E.R.	O.C.	10,514.13	E.R.	O.C.	1711.60
	845-10	224.18	O.S.	5079-21	1.74
	846-11	5.44	5000-46		< 1713.34 >
O.S.	925-16	1.43			
	5152-23	< 33.40 >			
	5062-27	< 10,745.18 >			
	5110-27	33.40			

FINAL DISPOSITION

By \_\_\_\_\_ Place \_\_\_\_\_ Date \_\_\_\_\_  
 Total Cost based on { Original Cost \_\_\_\_\_  
 { Receivership Value \_\_\_\_\_  
 Salvage \_\_\_\_\_  
 Accrued Depreciation \_\_\_\_\_  
 Amount Charged to Retirements \_\_\_\_\_