



STEAM LOCOMOTIVES. ACCOUNT NO. 51.

ER. P-1911, GR-12.  
VAL. GR. L-57.

Form 7310 4200 RP

Northern Pacific Ry. Co's Class S-2 I. C. C. Class 4-6-0 Service freight Number 109

LOCOMOTIVE DATA

Original Number 109  
 Renumbered from \_\_\_\_\_ to \_\_\_\_\_ Date \_\_\_\_\_  
 " " " " " "  
 Builder Schenectady Loco. Wks. Builders No. 5598.  
 Date Built, Month Sept. Year 1900.  
 From whom purchased Schenectady Loco. Wks.  
 Purchased New or Second Hand New Date 9-7-1900.  
 Authority No. \_\_\_\_\_ Voucher No. \_\_\_\_\_ Reqn. No. \_\_\_\_\_  
 Receiving Station St. Paul, Minn. Date 9-15-1900.  
 Setting up Shop Brainerd, Minn.  
 Boiler Type Ext. wagon top, rad. stay O. D. First Ring 70"  
 Flues, No. 376 Outside Dia. 2" Length 14'2"  
 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 2,776 sq. ft. Flues \_\_\_\_\_  
 Firebox 208 sq. ft. Arch Tubes 32 sq. ft.  
 Superheating \_\_\_\_\_ Total Equivalent 3,016 sq. ft.  
 Cylinders H. P., Dia., 22" L. P. Dia., 34" Stroke 30"  
 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 25'10 1/2"

Weight on Drivers 141,000 lbs.  
 Weight of Engine, Working Order 182,500 lbs. Light 160,800 lbs.  
 Tractive Power I. C. C. Formula 30.7  
 TENDER, Type U-Shape, Number 7-C-36  
 (Tender shown is one purchased with this locomotive)  
 Capacity, Water, Gals. 4,350 Oil, Gals. \_\_\_\_\_ Coal, Tons 7  
 Underframe, Kind Steel End Sills, Kind Wood  
 Wheels, No. 8 Kind Cast Iron Dia. 33"  
 Journals, Size 4 1/2" x 8" Trucks, Kind Arch Bar  
 Air Brake Cylinder, Size 10" x 12" Coal Pusher, Kind None  
 Weight, Light 38,200 lbs. Loaded 92,400 lbs.  
 Weight Engine and Tender, Light 199,000 lbs. Loaded 274,900 lbs.

APPURTENANCES

Headlights, No. 1 Kind Pyle - Electric  
 Main Valve, Kind Piston & Slide Dia. (If piston) 12"  
 Valve Gear, Kind Stephenson Driver Brake, Kind Am. Equal.  
 Air Brake Equipment, Kind Westinghouse Schedule A-1, SWA.  
 Air Pumps, No. 1 Make Westinghouse Size 9 1/2"  
 Air Reservoirs, No. 2 Size 22 1/2" x 51"  
 Train Signals, Kind West. Air Sanders, Kind Leach E Dble. & Hand  
 Stoker, Kind None Power Reverse, Kind None  
 Flange Lubricators, Kind None  
 Pneumatic Fire Doors, Kind None  
 Automatic Bell Ringers, Kind Crosby  
 Couplers, Kind, Engine Sharon 6" x 6" Tender Sharon 6" x 6"

FINAL DISPOSITION

By Retired Place \_\_\_\_\_ Date 4-1-26

Original Cost F. O. B. **Chicago, Ill.** 16 872 19 **ENG. REPORT 15,140.00** DEPRECIATION **ENGINE 86% = 13,020.40**  
 Receivership Value **TENDER 14% = 2,119.60**

Designing and Engineering  
 Inspection during Construction  
 Inspection of Material  
 Messenger Service  
 Setting up and breaking in  
 Miscellaneous, Tools, etc.  
 Freight paid from **Chicago to St. Paul** 78 00  
 Total 17 029 05

DEPRECIATION BASED ON { Original Cost  
 Receivership Value } PLUS IMPROVEMENTS **NP109**

ADDITION AND BETTERMENT

A. F. E. No.	Date	Description	
831-09	1-10	Electric headlights	224 76
846-11	5-15	Safety Appliances	6 09
925-16	7-27	Back stop on pilot steps	1 43
5079-21	2-28-22	AL-156 Water Crane Hooker	1 74
5063-20	9-30-21	AL-169 Hand Holders Sand Domet	1 74
5152-25	8-24	AL-18 Air Signal Supplement	33 40
5049-26	4-26	Engine Portion Retired	<17,264.81>
5110-27		Retirement Adj	33 40
5015-29		Retirement adj	2 385 81
5104-29	11-4-29	Tender Retired	<2,420.81>
<b>TRF FROM #1057</b>			<b>35 00</b>

DEPRECIATION R+E - ENGINE			DEPRECIATION R+E - TENDER		
Rate	Period	Amount	Rate	Period	Amount
E.R.	O.C.	14,644.98	E.R.	O.C.	2,384.07
	831-09	224.76	O.S.	5079-21	1.74
	846-11	6.09		5104-29	<2,420.81>
O.S.	925-16	1.43	<b>TRF FR #1057</b>		<b>35 00</b>
	5063-20	1.74			
	5152-23	<33.40>			
	5049-26	<17,264.81>			
	5110-27	33.40			
	5015-29	2,385.81			

FINAL DISPOSITION

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