



STEAM LOCOMOTIVES. ACCOUNT NO. 51

ER. P-1912, GR-13.  
VAL. GR. L-75.

Form 7310 RP

Northern Pacific Ry. Co's Class **Y-1** I. C. C. Class **2-8-0** Service **Freight** Number **27**

## LOCOMOTIVE DATA

Original Number **27**  
Renumbered from \_\_\_\_\_ to \_\_\_\_\_ Date \_\_\_\_\_Builder **Schenectady Loco. Wks.** Builders No. **5131.**Date Built, Month **Sept.** Year **1899.**From whom purchased **Schenectady Loco. Wks.**Purchased New or Second Hand **New** Date **1899.**

Authority No. \_\_\_\_\_ Voucher No. \_\_\_\_\_ Reqn. No. \_\_\_\_\_

Receiving Station **St. Paul, Minn.** Date **10-4-99.**Setting up Shop **Brainerd, Minn.**Boiler Type **Ext. wagon top, rad. stay** O. D. First Ring **72-1/8"**Flues, No. **206 + 32** Outside Dia. **2" + 5/2"** Length **14'2" 13'1"**Steam Pressure, Maximum **200#** Working **200# 175**Firebox, Type **Narrow** Length **120-3/16"**Width, Top **Fr. 67 1/2" ; Bk. 61 1/2"** Bottom **41"**Height, Front **77"** Back **73 1/2"**Grate Area **35 sq. ft.** Oil Burner, Type \_\_\_\_\_ Size \_\_\_\_\_Combustion Chamber, Length **None**Arch Tubes, No. **2** Size **3"**Superheater, Kind **None SCHMIDT 2/1923.**Feedwater Heater, Kind **None** Reheater, Kind **None**

Heating Surface Tubes \_\_\_\_\_ Flues \_\_\_\_\_

Firebox \_\_\_\_\_ Arch Tubes \_\_\_\_\_

Superheating **468** Total Equivalent **3,079 sq. ft.**Cylinders H. P., Dia. **23" 20"** L. P. Dia. **34"** Stroke **34"**Drivers—Dia. over New Tires **55"**Driving Wheel Centers, Kind **Cast Steel** Dia. **48"**Wheels, Leading Truck, Kind **Steel Tired** Dia. **30"**

Wheels, Trailing Truck, Kind \_\_\_\_\_ Dia. \_\_\_\_\_

Wheel Base, Rigid **15'0"** Total **23'7"**Weight on Drivers **172,500** ~~171,500~~ <sup>AFTER 2/1923</sup> lbs. **171,500** ~~171,500~~ <sup>171,500</sup> lbs.Weight of Engine, Working Order **190,000** lbs. Light **171,640** lbs.Tractive Power I. C. C. Formula **430** **36.7**TENDER, Type **U-Shape,** Number **10-C-15**

(Tender shown is one purchased with this locomotive)

Capacity, Water, Gals. **5,500** Oil, Gals. \_\_\_\_\_ Coal, Tons **10**Underframe, Kind **Steel** End Sills, Kind **Wood**Wheels, No. **8** Kind **3 prs. R.S. 1 pr. C.I.** Dia. **33"**Journals, Size **5" x 9"** Trucks, Kind **Arch Bar**Air Brake Cylinder, Size **10" x 12"** Coal Pusher, Kind **None**Weight, Light **45,000** lbs. Loaded **112,000** lbs.Weight Engine and Tender, Light **212,000** lbs. Loaded **302,600** lbs.APPURTENANCES **216640** **304300**Headlights, No. **1** Kind **Pyle - Electric**Main Valve, Kind **Slide** Dia. (If piston) **12"**Valve Gear, Kind **Stephenson** Driver Brake, Kind **Am. Equal.**Air Brake Equipment, Kind **Westinghouse** Schedule **A-1, S.W.A.**Air Pumps, No. **2** Make **Westinghouse** Size **9 1/2"**Air Reservoirs, No. **2** Size **22 1/2" x 51"**Train Signals, Kind **None** Sanders, Kind **Leach E Dble. & Hand**Stoker, Kind **None** Power Reverse, Kind **None**Flange Lubricators, Kind **2 NP #2**Pneumatic Fire Doors, Kind **None**Automatic Bell Ringers, Kind **Crosby**Couplers, Kind, Engine **Sharon 6" x 6"** Tender **Sharon 5" x 5"***note: pencil changes effective 2-1923.*

## FINAL DISPOSITION

By \_\_\_\_\_ Place \_\_\_\_\_ Date \_\_\_\_\_

Original Cost F. O. B. Chicago, Ill.	13 472 78
Receivership Value	
Designing and Engineering	34
Inspection during Construction	
Inspection of Material	
Messenger Service	
Setting up and breaking in	( 103 04
Miscellaneous, Tools, etc.	(
Freight paid from Chicago to St. Paul	60 00
Total	13 636 16

ENG. REPORT \$15,965.00

DEPRECIATION ENGINE 84% = 13,410.60  
 TENDER 16% = 2,554.40

DEPRECIATION BASED ON { Original Cost  
 Receivership Value } PLUS IMPROVEMENTS

NP 27

Cost or Value	DEPRECIATION R+E - ENGINE			Cost or Value	DEPRECIATION R+E - TENDER		
	Rate	Period	Amount		Rate	Period	Amount
	E.R.	O.C.	11454 37		E.R.	O.C.	2181 79
		831-09	224 76			5066-38	< 2181 79
		846-11	7 78				
	O.S.	925-16	1 43				
		5068-20	1 74				
		5029-20	3737 85				
		5141-25	28 59				
		5114-30	64 92				
		5034-29	58 08				
		5010-36	255 67				
		5007-38	11 45				
		5007-40	100 00				
		5000-48	78 62				
		5146-57	< 16063 26				

ADDITION AND BETTERMENT

A. F. E. No.	Date	Description	
831-09	1-10	Electric headlights	224 76
846-11	5-15	Safety Appliances	7 78
925-16	3-27	Back stop on pilot step	1 43
5068-20	2-17-23	AL-169 Sand Holes on Sand Douse	1 74
5029-20	2-23	BL-44-Cylinders chgd.	3737 85
		AL-91-Superheater appld.	
5141-25	11-25	AL-165 Cab Heater	28 59
5066-28	4-29	Tender portion retired	< 2181 79
5114-30	4-31	AL-74 Pneumatic Fire door	64 92
5034-29	5-21	AL-206 BLOWOFF COCK MUFFLER	58 08
5010-36	6-15-37	BL-177 SPARK ARRESTER	255 67
5007-38	9-30-38	AL-217 ANCHOR LUB FITTING	11 45
5007-40	8-31-40	AL-176 POWER REVERSE	100 00
5000-48	6-2-48	BL-94 WATER CLASS GUARD COVER	78 62
5146-57	1-19-57	ENG. DISM.	< 16063 26

From Report  
 Order 3

15579.52  
 75235.19  
 15846.64  
 16034.64  
 16063.26

FINAL DISPOSITION

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