



STEAM LOCOMOTIVES. ACCOUNT NO. 51.

ER. P-1912, GR-11.
VAL. GR. L-73.

Form 7310 4200 RP

Northern Pacific Ry. Co's Class **F-1** I. C. C. Class **2-8-0** Service **Freight** Number **77**

LOCOMOTIVE DATA

Original Number **478**
 Renumbered from **478** to **77** Date _____
 " " " " " " _____
 Builder **Baldwin Loco. Wks.** Builders No. **9518**
 Date Built, Month **Oct.** Year **1888.**
 From whom purchased **Baldwin Loco. Wks.**
 Purchased New or Second Hand **New** Date **10-11-88.**
 Authority No. _____ Voucher No. _____ Reqn. No. _____
 Receiving Station **St. Paul, Minn.** Date **10-23-88.**
 Setting up Shop **Brainerd, Minn.**
 Boiler Type **Straight top, rad. stay** O. D. First Ring **72"**
 Flues, No. **271** Outside Dia. **21"** Length **13'6"**
 Steam Pressure, Maximum **150#** Working **150#**
 Firebox, Type **Narrow** Length **121"**
 Width, Top **62 1/2"** Bottom **42"**
 Height, Front **63"** Back **59 1/2"**
 Grate Area **35.3 sq. ft.** Oil Burner, Type _____ Size _____
 Combustion Chamber, Length **None**
 Arch Tubes, No. **None** Size _____
 Superheater, Kind **None**
 Feedwater Heater, Kind **None** Reheater, Kind **None**
 Heating Surface Tubes _____ Flues _____
 Firebox _____ Arch Tubes _____
 Superheating _____ Total Equivalent **2,321 sq. ft.**
 Cylinders H. P., Dia., **22"** L. P. Dia., _____ Stroke **28"**
 Drivers—Dia. over New Tires **51"**
 Driving Wheel Centers, Kind **Cast Iron** Dia. **44"**
 Wheels, Leading Truck, Kind **Steel Tired** Dia. **30"**
 Wheels, Trailing Truck, Kind _____ Dia. _____
 Wheel Base, Rigid **14'0"** Total **22'3"**

Weight on Drivers **135,000 lbs.**
 Weight of Engine, Working Order **150,000 lbs.** Light **130,400 lbs.**
 Tractive Power I. C. C. Formula **33.8**
 TENDER, Type **U-Shape,** Number **8-A-6**
 (Tender shown is one purchased with this locomotive)
 Capacity, Water, Gals. **4,000** Oil, Gals. _____ Coal, Tons **10**
 Underframe, Kind **Wood** End Sills, Kind **Wood**
 Wheels, No. **8** Kind **Cast Iron** Dia. **33"**
 Journals, Size **4 1/2" x 8"** Trucks, Kind **Equalized**
 Air Brake Cylinder, Size **8" x 12"** Coal Pusher, Kind **None**
 Weight, Light **34,430 lbs.** Loaded **87,770 lbs.**
 Weight Engine and Tender, Light **164,830 lbs.** Loaded **237,770 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 **10 1/2"**
 Air Reservoirs, No. **2** Size **22 1/2" x 96"**
 Train Signals, Kind **None** Sanders, Kind **Browne**
 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 **Tower 6" x 6"** Tender **Sharon 6" x 6"**

FINAL DISPOSITION

By **DISM.** Place _____ Date **9-30-33**

Original Cost F. O. B. _____
 Receivership Value **8 000 00**
 Designing and Engineering _____
 Inspection during Construction _____
 Inspection of Material _____
 Messenger Service _____
 Setting up and breaking in _____
 Miscellaneous, Tools, etc. _____
 Freight paid from _____ to _____
 Total **8 000 00**

ENG. REPORT 12,570.00 DEPRECIATION ENGINE 88.5% = 11,124.45
 TENDER 11.5% = 1,445.55

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

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ADDITION AND BETTERMENT

A. F. E. No.	Date	Description	
845-10	7-11	Electric head lights	224 18
846-11	5-15	Safety Appliances	5 04
890-13	11-14	Cross comp. compressor	240 82
804-16	5-27	Run board steps	11 97
5079-21	5-22-22	AL-156 Uboats Crane Hooks	174
5111-23	1-1922	AL-169 Handholds on side of dome	150
5068-27	5-27	BL-71 Oil Burner	385 24
5049-33	12-6-33	Plow	265 65
5110-28	1-28	Flange	229 91
5015-29		Tender dismantled	< 92174 >
5092-28	12-28	AL-783 Wind Shields	483
5049-33	12-6-33	RETIRED ENG. PORTION	< 825662 >
5008-35	9-1935	ENG. RETIREMENT ADJ.	30295

DEPRECIATION - ENGINE			DEPRECIATION - TENDER				
Cost or Value	Rate	Period	Amount	Cost or Value	Rate	Period	Amount
	E.R.	REC.	7080.00		E.R.	REC.	920.00
			845-10		O.3.	5079-21	174
			224.18			5015-29	< 92174 >
			846-11				
			5.04				
			890-13				
			240.82				
			804-16				
			11.97				
	O.3.	5111-23	1.59				
		5068-27	385.24				
		5092-28	4.83				
		5049-33	< 825662 >				
		5008-35	302.95				

Eng. Report

Order

Separate card for plow flange

Plow 265.65
 Flange 229.91
 Oil Burner < 192.61 >
 302.95

FINAL DISPOSITION

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