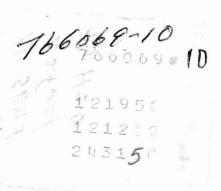
SPECIFICATION FOR LOCOMOTIVE UNIT NO. 3289

Operated by	CONSOLIDATED RAIL	CORPORATION		Сошнару
Built by Electro-Motive Builder's Number 76 Gauge of Wheels	66069-10 Propelled	by One 3000	e May 2 HP Diese	, 19 77 I-Electric Power Plant
Number, make, and type Make and type of contro Make and type of intern Kind of air brakes We	I equipment EMD al combustion engine stinghouse Air Brake Co	Electric EMD 2-Cycle	Control circuit 16 Cyl. rake Co.	voltage 64-74 Model 645
Number, make, and type Main air reservoir press	of air compressors 0 ure 130-14	one Gardner-D O Train line	Denver pressure	Model WBO
Total weight, working of weight on trucks_ Maximum tractive effort_	276,318 pounds			76,318 pounds, supplies.

EMD 2771





DEPARTMENT OF TRANSPORTATION

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CA- NOLLING			3
OIL		V.	DEPLOY
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LOCOMOTIVE INSPECTION AND REPAIR RECORD	In accordance with the Locomotive Inspection Act, 36 Stat. 913, as amended, and with the rules and regulations issued in pursuance thereof, the parts and appurtenances of the locomotive unit have been inspected. All defects disclosed by the inspection were properly repaired, except as shown on the reverse.	5. REPORT PERIOD COVERED	27	<u>i</u> 1	/2/77 Chicago, Ill.	5/2/77 Drilled	5/2/77 LaGrange, Ill.	5/2/77 LaGrange, 111	16. Mo. Boy Vr. 17. PLACE	5/2/77 LaGrange, 111.	**					The second second	
TON AND RI	ction Act, 36 S in pursuance the e been inspecte except as show	9	UEC. 19		Hydro	B. Hammer	C Meters	D	18. tems 19.	1-4	7			ا و			
EPAIR RECORD	ispection Act, 36 Stat. 913, as amended, and in pursuance thereof, the parts and have been inspected. All defects disclosed ed, except as shown on the reverse.	6. PROPELLED BY	TESELWELECIKIC	12. TERSON CONDOCTING	M. Jacus	M. Jacus	J.3.7.		19. PERSON CONDUCTING	J.A. J.			₩		A CASA MANAGARAN		
OMD A	2. MODEL NO. 3. Yr. Built EMB GP40-2 1977	eck, if appli		13. CERTIFIED BY 14. PHEV. DATE	hallfulum Dew		New New	New New	Zaltofing 21. PERSON CONDUCTING	6.9		d					
pprovai ino.	CORPORATION CODE	8. UNIT NO.	3289	ctions 15. OUT-OF-SERVICE					3 22. CERTIFIED BY	1			7				

ELECTRO-MOTIVE CERTIFIED MAIN RESERVOIR

This is to certify that Reservoir No. 77097. Length 152"...

O.D.15"...furnished for: Electro-Motive Division General Motors Corporation La Grange, Illinois

has been manufactured and tested in accordance with the following specifications:

MATERIAL

Shell: Selected Steel 1.4. thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch.

Heads: Selected Steel thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch; die formed accurately to diameter of reservoirs.

DESIGN AND CONSTRUCTION

Electro-Motive certified reservoirs are designed for a working pressure of 150 pounds per square inch with a safety factor of not less than 5. These reservoirs are carefully formed to the diameters required and are constructed in accordance with accepted welding standards for unfired pressure vessels. All welding operations are carefully performed by qualified workmen. This construction assures that the reservoirs will be of maximum strength and bottle tight.

Electro-Motive certified reservoirs are enameled by a special process to protect them against corrosion and insure long life. After fabrication, the reservoirs are thoroughly cleaned of scale and foreign matter. Both the inside and outside surfaces of the reservoirs are coated with enamel and baked at a high temperature.

TESTS

ELECTRO-MOTIVE DIVISION OF GENERAL MOTORS CORPORATION

Duly Authorized Officer

(The following detachable portion of this certificate is in compliance with the Bureau of Railroad Safety requirements.)



CERTIFICATE

ELECTRO-MOTIVE CERTIFIED MAIN RESERVOIR

This is to certify that Reservoir No. 77C97. Length 152"...

O.D.15"...furnished for: Electro-Motive Division
General Motors Corporation
La Grange, Illinois

has been manufactured and tested in accordance with the following specifications:

MATERIAL

Shell: Selected Steel thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch.

Heads: Selected Steel thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch; die formed accurately to diameter of reservoirs.

DESIGN AND CONSTRUCTION

Electro-Motive certified reservoirs are designed for a working pressure of 150 pounds per square inch with a safety factor of not less than 5. These reservoirs are carefully formed to the diameters required and are constructed in accordance with accepted welding standards for unfired pressure vessels. All welding operations are carefully performed by qualified workmen. This construction assures that the reservoirs will be of maximum strength and bottle tight.

Electro-Motive certified reservoirs are enameled by a special process to protect them against corrosion and insure long life. After fabrication, the reservoirs are thoroughly cleaned of scale and foreign matter. Both the inside and outside surfaces of the reservoirs are coated with enamel and baked at a high temperature.

TESTS

The reservoir covered by this certificate has been subjected to a hydrostatic pressure of 300 pounds per square inch, and an inspection for leaks made of all seams, and connections.

Reservoir drilled in accordance with Rule 206(c) YES NO This Certificate issued at Chicago, Illinois

this 25th day of March, 1977

ELECTRO-MOTIVE DIVISION OF GENERAL MOTORS CORPORATION

DAXED LOCATION IN INC.

(The following detachable portion of this certificate is in compliance with the Bureau of Railroad Safety requirements.)

CONRAIL SOCIEM

CERTIFICATE

EMD 1 2C

ELECTRO-MOTIVE CERTIFIED MAIN RESERVOIR

Customer's Order No	66069-10
This is to certify that Res	servoir No. 77C85. Length 152".
O.Dfurnished for	or: Electro-Motive Division General Motors Corporation La Grange, Illinois
has been manufactured and t following specifications:	tested in accordance with the

MATERIAL

Shell: Selected Steel thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch.

Heads: Selected Steel 1.4.4. thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch; die formed accurately to diameter of reservoirs.

DESIGN AND CONSTRUCTION

Electro-Motive certified reservoirs are designed for a working pressure of 150 pounds per square inch with a safety factor of not less than 5. These reservoirs are carefully formed to the diameters required and are constructed in accordance with accepted welding standards for unfired pressure vessels. All welding operations are carefully performed by qualified workmen. This construction assures that the reservoirs will be of maximum strength and bottle tight.

Electro-Motive certified reservoirs are enameled by a special process to protect them against corrosion and insure long life. After fabrication, the reservoirs are thoroughly cleaned of scale and foreign matter. Both the inside and outside surfaces of the reservoirs are coated with enamel and baked at a high temperature.

TESTS

The reservoir covered by this certificate has been subjected to a hydrostatic pressure of 300 pounds per square inch, and an inspection for leaks made of all seams, and connections.

Reservoir drilled in accordance with Rule 206(c) YES X NO

This Certificate issued at Chicago, Illinois

this 22nd day of March, 1977

ELECTRO-MOTIVE DIVISION OF GENERAL MOTORS CORPORATION

Duly Authorized Officer

(The following detachable portion of this certificate is in compliance with the Bureau of Railroad Safety requirements.)



ELECTRO-MOTIVE CERTIFIED MAIN RESERVOIR

This is to certify that Reservoir No. 77C85. Length 152"...

O.D. ...!5"....furnished for: Electro-Motive Division
General Motors Corporation
La Grange, Illinois

has been manufactured and tested in accordance with the following specifications:

MATERIAL

Shell: Selected Steel \dots thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch.

Heads: Selected Steel 1/4... thick, of a guaranteed minimum tensile strength of 55,000 pounds per square inch; die formed accurately to diameter of reservoirs.

DESIGN AND CONSTRUCTION

Electro-Motive certified reservoirs are designed for a working pressure of 150 pounds per square inch with a safety factor of not less than 5. These reservoirs are carefully formed to the diameters required and are constructed in accordance with accepted welding standards for unfired pressure vessels. All welding operations are carefully performed by qualified workmen. This construction assures that the reservoirs will be of maximum strength and bottle tight.

Electro-Motive certified reservoirs are enameled by a special process to protect them against corrosion and insure long life. After fabrication, the reservoirs are thoroughly cleaned of scale and foreign matter. Both the inside and outside surfaces of the reservoirs are coated with enamel and baked at a high temperature.

TESTS

The reservoir covered by this certificate has been subjected to a hydrostatic pressure of 300 pounds per square inch, and an inspection for leaks made of all seams and connections.

Reservoir drilled in accordance with Rule 206(c)	YES X	NO
This Certificate issued at Chicago, Illinois		
this 22nd day of March,	1977	•

ELECTRO-MOTIVE DIVISION OF GENERAL MOTORS CORPORATION

t Mulahell

(The following detachable portion of this certificate is in compliance with the Bureau of Railroad Safety requirements.)

CONRALL CO

ELECTRO-HOTIVE DIVISION

General Motors Corporation

LaGrange, Illinois

LOCOMOTIVE SERIAL RECORD

RAILROAD	Conrelia	LOCO. NO	3289	order no	766069-10
	766069_10				
			138,959		
APPARATUS	TYPE		STRUAL NU		•
ENG.	16 645 E3	NO. 1	77£C1 1078	NO. 2	connecting and configuration contraction of the con
MAIN. GEN.	AR10AG	NO. 1	77 C1 1129	NO. 2	
AUX. GEN.	2A 8147	NO. 1	77 C 1170	NO. 2	bigaterianis des substanços suspepti lingua en ej gradus ser el companha fou de servici des encodos.
FILTER BLWR. MTR.	I 4737	NO. 1	76 J 0935	NO. 2	and Anthree of the Anthree (to the Contract of the Anthree (to
AIR COMP.	WBO - 8101	NO. 1	684605	NO. 2	er gjellenne gjelle andere van een een trijke kan neem en keine van de keer van de keer een trijke van de keer
OVERNIGHT HEATER OR STM. GEN.		RIGHT	eranan naskronningsver hallstadar varioriteris etaalitien olgastiissatjas Aurykke	Reference Communication	adriffrendistates fra se signaturi siributa ut adalmini siribun vadan vastna di nave-e e tind.
RADIATOR FAN MTR.	8310416	NO. 1	77 C 153	. 110. Z	77 C 132
		NO. 3	77 C 158	NO. 4	
\$					
DYN. BRK. BLWR. MTR.	8324324	NO. 1	77 C 25	NO. 2	
	UD 466	MFG.	Rx ide	ser. No	1387 - 1396
TRUCK: E. M. D.	ALCO []	330. 1	77 D1 1025	NO. 2	77 D1 1026
	D 77 B		77 C1 1447		77 Cl 1426
			77 Cl 1427		77 Cl 1324
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CERT. AIR RES. NO'S	EMD	NO. I	77 C 85	NO. 2	77 C 97
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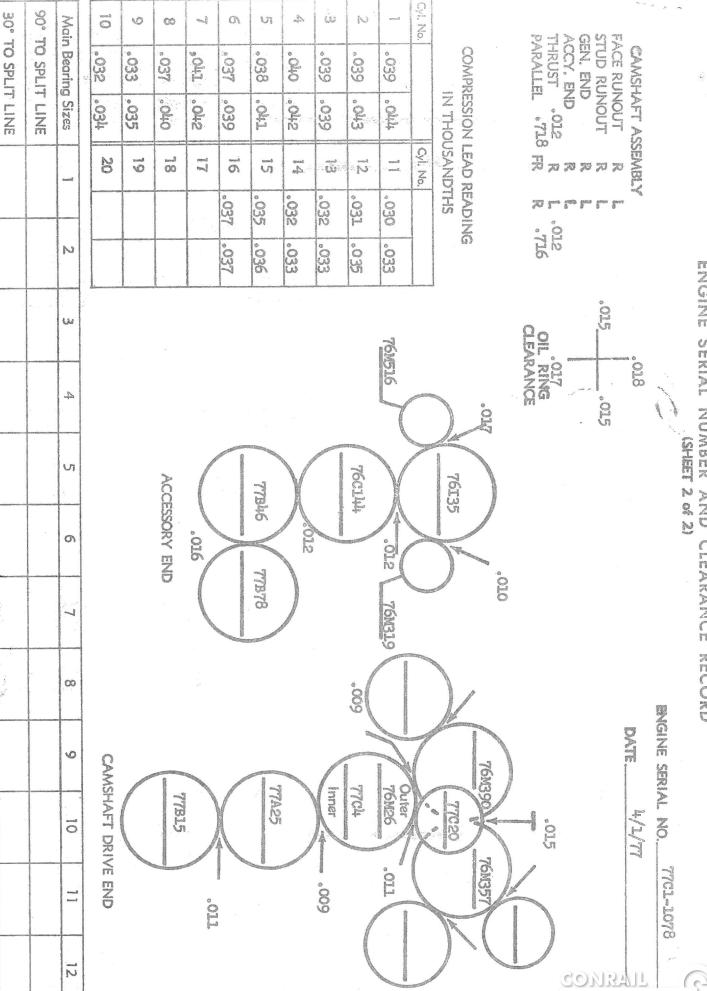
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ELECTRO-MOTIVE DIVIDION ENGINE SERIAL NUMBER AND CLEARANCE RECORD



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EMD 996D.2

30° TO SPLIT LINE

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LOCOMOTIVE INSPECTION

4 WHEEL TRUCK DATA SHEET

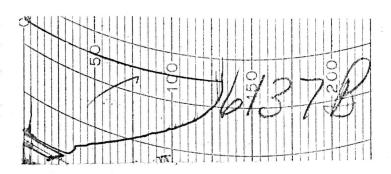
			10	
CUSTOMER CONKAI	C ORDER	RNO.766069-H	R.R. SERIAL NO.	3229
WHEEL DIA.	O" GEAR RA	ATIO 61:16	DATE 4-5	-77
AXLE DATE	3-77	2-77	3-77	3-77.
AXLE MFR.	5FC	SFE	SFC	SFE
AXLE EMD NO.	77A195 RBLT	77A723	77A842	NEW M RBLT □
AXLE HEAT NO.	6054268	523135	6054268	6054268
WHEEL MFR. NO.	6/37 /	6145	R2-77-63 625//	6064
WHEEL HEAT NO.	3	B	3	B
WHEEL FIT PRESSURE	13/ TONS	1/8 TONS	//5 tons	122 TONS
JOURNAL BOX SERIAL NO.	NEW RBLT	72 C3 47	77 C 3 4 9	77 6330 RBLT [
WHEEL SIZE	345 TAPES	345 TAPES	345 TAPES	345 TAPES
GEAR SERIAL NO.	77A13	77A25	77A34	77A33
GEAR FIT PRESSURE	(00 tons	84 TONS	98 TONS	80 TONS
GEAR SIDE WHEEL MFR. NO.	6146	6200	6/35	6046
GEAR SIDE WHEEL HEAT NO.	3	B	3	3
WHEEL SIZE	345 TAPES	34/5 TAPES	345 TAPES	345 TAPES
WHEEL FIT * PRESSURE	127 TONS	120 TONS	125 TONS	12/ TONS
JOURNAL BOX SERIAL NO.	77 - 293	77 C 3 5/	77 C 3 4 8	NEW RBLT
INSPECTOR	Of	A.	24	Ol.
AXLE END TO HUB RECORD DIM.	14/8 14/32	143/10 148	14/3/16	145/2 14/18
AXLE END TO RACE RECORD DIM.				
GEAR TOOTH COUNT AND COLOR CODE	617		Ъ	617
RECORD + OR - TO 11/16" DIM.	07(OX		4

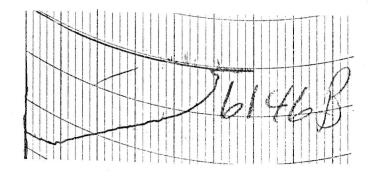
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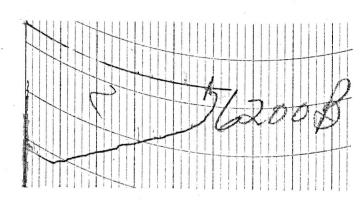
#1 Rockwell 1430

#1 AXLE

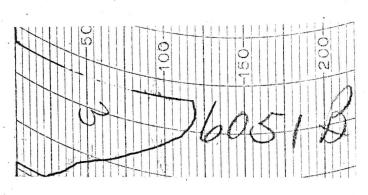




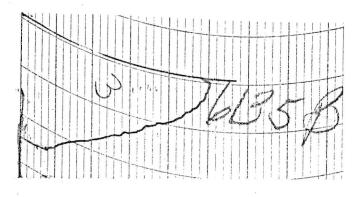
#2 AXLE



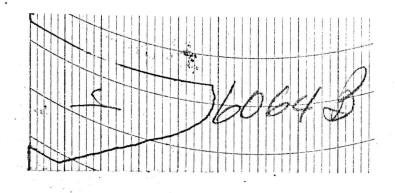
#3 AXLE

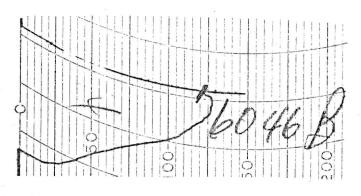


#2 Rockwell /437



#4 AXLE





Standard Forgings Corporation 2739 . Heat No. 6054268 Heat Code 54 Date March 1, 1977
Steel Spec. C-1050 Diesel Locomotive Axles FOR PARTS: ANALYSIS CHEMICAL GRAIN SIZE Mo MILL 48 .85 015 .031 17 S.F. CORP. S.F. CORP. HARDENABILITY RESULTS LIMILE JOMINY S.F. CORP S-A-C RATING 1/16 ths 3 5 8 12 | 14 20 24 28 32 40 48 10 16 Rc Rc TESTS TENSILE DIAM. OF TEST YIELD' POINT MAXIMUM TOTAL STRENGTH Per Cent TEST Per Cent Reduced LOAD IN POUNDS AREA AREA REMARKS' IN POUNDS POUNDS Per Reduc-IN POUNDS NO. Elong. Diam. PIECES ACTUAL PER SQ. IN. tion ACTUAL SQ. INCH .505 .2003 .375 11100 55500 .110 45.0 18800 94000 23.5 2 .505 .2003 10900 54500 18500 92500 24.5 .369 .107 46.5 3 .505 .2003 10900 54500 18600 93000 24.5 .371 .108 46.0 MATERIAL TESTED S.F.C. ORDER NO TEST CUSTOMER DESCRIPTION QTY. SERIALS SPECIFICATIONS NO. ORDER NO. 32223 30 No. R-190055 Locomotive 1 77A774-670290 M-101-72 Grade "F" Axles, Drg. No . 8387283 2 30 77A869 Ultrasonically Tested 3 36 Rev. "A" 2-6-70 Inc. Per AAR Spec. M-101A Tested By F Stelco Shipped 96 pcs. to Electro Motive McCook, Ill. Via: Welsh Bros. 3-1-77 Witnessed By Ass't Metallurgist Title STATE OF INDIANA COUNTY OF LAKE March On this 2nd day of YEEV 19.77 personally appeared before me ... Frank Slicko who made oath that the facts, statements and figures herein set forth are true to the best of his information, knowledge and belief, April 8, Notary Public MY COMMISSION EXPIRES: HISTORICATESOCIETY

CERTIFICATION OF CHEMISTRY AND PHYSICAL PROPERTIES

Standard Forgings Corporation S.F.C. Lab. No. 2739 . Heat No. 6054268 Heat Code 54 Date March 1, 1977 Steel Spec._____C-1050 Diesel Locomotive Axles FOR PARTS:____ CHEMICAL ANALYSIS Mn GRAIN SIZE MILL .48 015 031 85 17 S.F. CORP. S.F. CORP. HARDENABILITY RESULTS LIMILL JOMINY S. F. CORP S-A-C RATING 20 24 28 1/16 ths 12 14 32 40 48 16 10 Rc Rc TENSILE TESTS DIAM. OF TEST PIECES MAXIMUM LOAD IN POUNDS YIELD' POINT TOTAL Per Cent Per Cent Reduced TEST AREA AREA REMARKS' IN POUNDS POUNDS Per Reduc-NO. IN POUNDS Elong. Diam. SQ. INCH PER SQ. IN. tion ACTUAL ACTUAL •505 2003 11100 55500 18800 .375 .110 45.0 94000 23.5 .505 .2003 10900 54500 18500 92500 .369 24.5 .107 46.5 3 .505 .2003 10900 54500 18600 93000 24.5 | .371 .108 46.0 MATERIAL TESTED S.F.C. ORDER NO. TEST CUSTOMER SERIALS QTY. DESCRIPTION SPECIFICATIONS ORDER NO. NO. 32223 30 No. R-190055 Locomotive 1 77A774-670290 M-101-72 Grade "F" 2 30 Axles, Drg. No . 8387283 77A869 Ultrasonically Tested 3 36 Rev. "A" 2-6-70 Per AAR Spec. M-101A Inc. 77A842 Tested By F Stickes Shipped 96 pcs. to Electro Motive McCook, Ill. Via: Welsh Bros. 3-1-77 Witnessed By Ass't Metallurgist Title STATE OF INDIANA COUNTY OF LAKE March On this 2nd day of FEEV 19.77 personally appeared before me ... Frank Slicko who made oath that the facts, statements and figures herein set forth are true to the best of his information. knowledge and belief.) Mnen April 8, 1980 MY COMMISSION EXPIRES:

HISTORICALLOCIETY

ECERTIFICATION OF CHEMISTRY AND PHYSICAL PROPERTIES

Standard Forgings Corporation S.F.C. Lab. No. 2739 . Heat No. 6054268 Heat Code 54 Date _ March 1, 1977 Steel Spec._____C-1050 Diesel Locomotive Axles FOR PARTS:_ CHEMICAL ANALYSIS GRAIN SIZE Мо MILL 48 .85 015 .031 17 S.F. CORP. S.F. CORP. HARDENABILITY RESULTS LIMILL JOMINY S-A-C RATING , IS. F. CORP 1/16 ths 5 20 24 28 32 40 48 8 10 12 | 14 16 Rc Rc TENSILE TESTS TOTAL YIELD' POINT MAXIMUM Per Cent DIAM. OF TEST TEST IN POUNDS POUNDS PET IN POUNDS ACTUAL SQ. INCH ACTUAL Per Cent Reduced AREA AREA REMARKS' Reduc-IN POUNDS NO. Elong. Diam. PIECES PER SO. IN. SQ. INCH tion .505 2003 11100 55500 .375 .110 45.0 23.5 18800 94000 .505 .2003 10900 2 54500 18500 92500 24.5 .369 .107 46.5 3 .505 .2003 10900 54500 18600 93000 24.5 .371 .108 46.0 MATERIAL TESTED S.F.C. ORDER NO. TEST CUSTOMER DESCRIPTION QTY. SERIALS SPECIFICATIONS NO. ORDER NO. No. R-190055 Locomotive 32223 30 1 77A774-670290 M-101-72 Grade "F" 2 Axles, Drg. No . 8387283 30 77A869 Ultrasonically Tested 11 36 Rev. "A" 2-6-70 Per AAR Spec. M-101A Inc. Tesseed By F Studies Shipped 96 pcs. to Electro Motive McCook, Ill. Via: Welsh Bros. 3-1-77 Witnessed By Ass't Metallurgist Title STATE OF INDIANA COUNTY OF LAKE March On this 2nd day of YEEV 19.77 personally appeared before me ... Frank Slicko who made oath that the facts, statements and figures herein set forth are true to the best of his information, knowledge and belief, April 8, Notcay Public MY COMMISSION EXPIRES: HISTORICALESOCIETY

CERTIFICATION OF CHEMISTRY AND PHISICAL PROPERTIES

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FOR	PART	S:		No.	R-190	055	L	ocom	otive	Ax1	es			Ste	eei	Spec	•			C-105			
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HISTORICAL SOCIETY

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