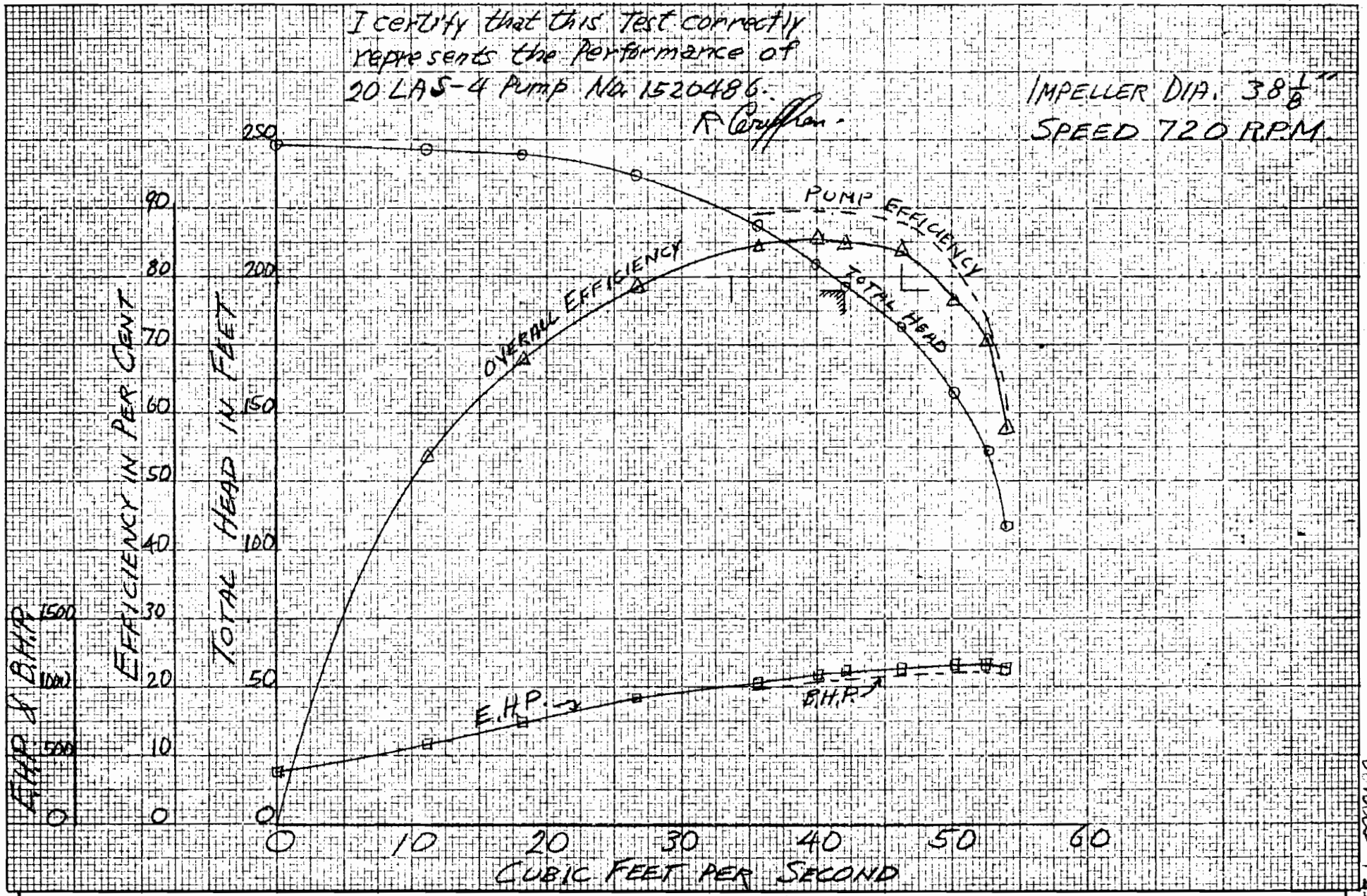
M-1



Worthington Feb 21

DS-4558, Item 1
Units 1 & 2

HOW TESTED:	CAPACITY. VENTURI	DRIVER CUSTOMER'S MOTOR	SPEED 720 RPM	DRIVE DIRECT		
WITNESS TEST CURVE	WORTHINGTON CORPORATION		NEW YORK		P423927 ORDER No.	TEST No.
R.C. 2-14-57	20	LAS-4	VOLUTE	1520486	720	10830	E-134969
APPROVED DATE	SIZE	TYPE	STYLE	MACHINE	RPM.	COMB No.	CURVE No.

W. 1415
R1253

WORTHINGTON CORPORATION

CENTRIFUGAL PUMP TEST SHEET

ORDER NO. P-423927

CONDITIONS OF SERVICE:

G.P.M. 18,850 T.D.H. 195 ft R.P.M. 720 EFF. 89.0% PUMP NO. 1520496

SIZE - 20 TYPE - LAS-4 TEST NO.

CURVE NO. E-134989-A

REV	SUCT GAUGE	DISCH. GAUGE	VEL. HEAD CORR.	TOTAL HEAD	G.P.M.	WATER H.P.	CFS	K.W.	VOLTS	OVERALL EFF.	MOTOR EFF.	ELECTRIC H.P.	BRAKE H.P.	PUMP EFF.
RPM	Ins.Hg	P.S.IG	FT.	FT.						%	%			%
720	8.1	39.9	7.0	107.8	24250		54.	853		57.7	95.38	1143	1090	60.6
	7.9	52.5	6.67	136.4	23600		52.6	860		70.4	95.4	1154	1100	73.8
	7.7	62.0	6.08	157.5	22500		50.15	860		77.7	95.4	1154	1100	81.5
	7.15	73.0	5.17	181.9	20800		46.4	850		83.6	95.37	1140	1087	87.6
	6.75	80.2	4.27	196.7	18900		42.1	825		84.9	95.3	1106	1052	89.1
	6.55	84.0	3.65	204.8	17450		40.0	810		85.5	95.25	1086	1033	89.7
	6.25	90.2	3.04	218.0	15850		35.6	772		84.7	95.14	1036	985	89.1
	5.6	99.2	1.7	236.7	11750		26.65	680		78.3		912		
	5.3	103.1	0.8	244.5	8200		18.25	578		67.9		746		
	5.0	104.2	0.3	246.2	5000		11.12	430		53.9		577		
	4.9	105.2	0	248	0		0	294		0		394		
		TEMPERATURES												
		OUTBOARD BEARING				76 °F								
		INBOARD BEARING				82 °F								
		STATOR WINDING				94 °F								
		STATOR CORE				96 °F								
		ROTOR				84 °F								
		ROOM				70 °F								

DISTANCE BETWEEN GAUGES 0.5 ft COMB. 10830 DWG. NO.

DRIVER NO.

IMP. DIMENSIONS

D_2	VANE DIA.	WIDTH	TIP
$38\frac{1}{8}$	$38\frac{1}{8}$	$3\frac{7}{16}$	

Br. ~~Cast~~

MOTOR OR TURBINE DATA

MOTOR

H.P.	V.	A.	PHASES	CYCLE	P.F.	R.P.M. SYN.	R.P.M. F.L.	MAKE OF MOTOR
1250	2300		3	60		720	720	IDEAL

TURBINE

H.P.	STM PRES.	BACK PRES	SUP. HT.	MOIST	R.P.M.	GEAR RATIO	MAKE OF TURBINE

DIRECT CONNECTED TO MOTOR ~~TURBINE~~ TEST MOTOR USED CUSTOMER'S

LENGTH OF TIME RUN VENTURI METER USED 20"X14"

REMARKS:

DATE 2-14-57 IDENTIFIED BY R. Coffman