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## EQUIPMENT LIST

One- Model 6-R-13, 240 H.P., 6 Cylinder,  $10\frac{1}{4}$ " Bore,  $13\frac{1}{2}$ " Stroke, 360 R.P.M., Solid Injection, 4 Cycle, Direct Reversing WASHINGTON MARINE DIESEL ENGINE with the following attached accessories:

- 1- Fresh Water Circulating Pump, 60 G.P.M., Centrifugal Type.
- 1- Salt Water Circulating Pump, 95 G.P.M., Centrifugal Type.
- 1- Air Compressor, Single-stage, Single Acting, Water-cooled,  $6\frac{1}{2}$ " Bore X  $4\frac{1}{4}$ " Stroke; Displacement 29 C.F.M.
- 1- Duplex Lubricating Oil Pump. (One pump to take oil from base of engine and deliver to lubricating oil service tank, and one to take oil from the service tank and deliver to pressure system of engine.)
- 1- Fuel Transfer Pump, Gear type, Reversible, 2-1/2 G.P.M., (To take suction from main storage tanks and deliver to fuel oil day tank).
- 1- Mechanical Lubricator (For cylinder wall lubrication).
- 1- Duplex Fuel Oil Filter.
- 1- Lubricating Oil Strainer.
- 1- Lubricating Oil Cooler.
- 1- Thrust Bearing.
- 1- Water-jacketed Exhaust Manifold.
- 2- Thermometers for Lubricating Oil.
- 2- Thermometers for Circulating Water.
- 1- Contact Switch Operated by Low Pressure Oil or High Water Temperature.
- 6- Thermocouples & Wiring for Exhaust Temperature Indication.

EQUIPMENT LIST, Cont'd

UNATTACHED ACCESSORIES:

- 1- Lubricating Oil Service Tank with Gauge Glass.
- 1- Fuel Oil Day Tank with Gauge Glass
- 1- Heat Exchanger
- 2- Starting Air Tanks
- 1- Exhaust Muffler
- 1- Gauge Board with the following Gauges Mounted:
  - 1- Lubricating Oil Pressure Gauge
  - 2- Starting Air Tank Pressure Gauges
  - 1- Maneuvering Air Pressure Gauge
  - 1- Pyrometer Indicator and Switch
  - 1- Tachometer Indicator with Connecting Cable to Engine.
  - 1- Howler with Cut-off Switch for Lubricating Oil Low Pressure & Water High Temperature Alarm.

T A B L E O F D R Y W E I G H T S

LUBRICATING OIL TANK	65 Lbs.
FUEL OIL DAY TANK	50 Lbs.
HEAT EXCHANGER	750 Lbs.
STARTING AIR TANK (EACH)	1,100 Lbs.
EXHAUST MUFFLER	210 Lbs.
MAIN ENGINE COMPLETE WITH ATTACHED ACCESSORIES	24,000 Lbs.

L U B R I C A T I N G O I L

FOR HOT WEATHER - S.A.E. 40

FOR COLD WEATHER - S.A.E. 30

(ANY GOOD GRADE OF LUBRICATING OIL)

APPROXIMATELY 30 GALLONS REQUIRED TO FILL  
ENGINE SYSTEM AND LUBRICATING OIL TANK.

CONSUMPTION: APPROXIMATELY 1 GALLON PER 6 HOURS.

F U E L O I L

FLASH POINT (Closed Cup)	150° F. Min.
POUR POINT	0° F. Max.
VISCOSITY SAYBOLT UNIVERSAL at 100° F.	35 - 45
WATER and SEDIMENT	0.5% Max.
ASH	0.1% Max.
SULPHUR	1.0% Max.
IGNITION QUALITY - CETANE	39 Min.

CONSUMPTION: APPROXIMATELY 14 GALLONS PER HOUR.

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Base and Frame	35736	AO		
Gears and Sprockets	35737	AO		
Manifolds	35738	AO		
Shaft Bearings	35776	AO		
Cylinder	35739	AO		
Cylinder Relief Valve	25400	AO		
Main Valve	27157	AO		
Main Valve Motion	27159	AO		
Governor	27285	AO		
Governor Control Lever	35755	AO		
Air Distr. & Inlet Valve	27253	AO		
Fuel Pump	35740	AO		
Lubricating Oil Pump	35763	AO		
Water Pump	35753	AO	Engine Circulation	
Water Pump	35761	AO	Heat Exchanger	
Air Pump	27241	AO		
Cam Shifter	35754	AO		
Thrust Bearing	35741	AO		
Engine Control	35762	AO		
Gauge Board	35771	AO		
Spare Parts and Tools	35772	AO	Eng. 7511 to 7526 Only	
TAIL SHAFT COUPLING	10026	AJ D	1051 4 1/2" SHAFT	1
ASSEMBLY	35779	UU		
AIR TANKS	27837	AK	27837AK 24" x 112"	2
LUBR. OIL SERVICE TANK	35777	AK	35777AK 12" x 36"	1
FUEL OIL DAY TANK	35799	AK	35799AK 12" x 36"	1
Scintilla Fuel Pumps				

Engines #7511 to #7526, Inc.

Cam Shifter over Cam Shaft.

Fresh Water Cooling

QUANTITIES ARE PER

WASHINGTON MARINE DIESEL ENGINE 10 1/2" x 13 1/2"

6-CYLINDER KEY LIST, (Direct Reversing- Without Sailing Clutch)

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35735-A0

DATE May 7, 1943

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Base	27189	UU D 6454	Cast Iron	1
Lubricating Oil Sump Gland	29078	AK DF 6886 DF 6887	Steel	1
A-Frame	27115	UU D 6395	Cast Iron	1
A-Frame Corner Filler	27293	AH D 6544	Cast Iron	1
Column Bolt and Nuts	27225	AH DF 6487	X-1020 T&G	14
Cylinder Block (Inter)	27137	AE D 6411	Cast Iron	1
" " (End Section)	"	" D 6411-A	" "	2
End Plate, Aft	35769	AK DF 8196	Steel Plate	1
" " , For'd	34428	AK D 8062	Cast Iron	1
" " For'd	27263	AE D 7792	" "	1
" " For'd	34427	AK D 8061	" "	1
" " Cover, For'd	25334	AK D 7760	" "	1
Side Plate, For'd	27255	AE D 7795	Cast Iron	1
" " , Main	33383	AE DF 7789	Steel	2
" " , Aft	35756	AE DF 8185	Steel	1
" " Joint Cover	33378	AK DF 7785	C.R. Stl.	3
Crank Shaft	27108	UU DS 6391	Forged Steel	1
" " Barring Wheel	27907	AK D 6649	S.C.	1
Cam Shaft	27202	UU DV 6462	X-1020 T&G	1
Flywheel, 32" Dia., 10" Face	27220	AE D 6481	Cast Iron	1
" Coupling	27221	AK D 6482	S.C.	1
" Coupling Bolt	27224	AH DF 6485	Maxel #3-1/2	6
" Bolt	27224	AH DF 6486	" "	2
" Housing	27993	AE DF 6710	Steel	1

SHIFTER CYLINDER OVER CAM SHAFT

WASHINGTON MARINE DIESEL, 10-1/4" x 13-1/2" Direct Reversing			6-CYLINDER BASE AND FRAME LIST Scintilla Pumps WITHOUT CLUTCH		QUANTITIES ARE PER	Engine
Fresh Water Cooling			DRAWN R.Z.	CHECKED R.Z.	APPROVED R.Z.	DRAWING NUMBER 35736-A0
						DATE May 7, 1943

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Cam Shaft Gear 108 T	27216	AK D 6475	S.C.	1	
" " " Dead. Ring	"	" DV 6476	Stl.	1	
" " " Hub	20918	AK D 4397	S.C.	1	
" " " Bolt	"	" DF 4398	M. Stl.	6	
" " Idler Gear - 66 T	33385	AK D 7796	Cast Iron	1	
Cam Shaft Idler Gear Bracket	27271	AK DV 6527	Stl.	1	
" " " " Pin	27272	AH DV 6528	M. Stl.	1	
" " " " Bushing	33385	AK H 334	Kingwell	1	
Crank Shaft Pinion - 54 T	27215	AH DV 6474	Maxel 3-1/2	1	
Lubr. Oil Pump Drive Sprocket	27248	AH DP 6505	Maxel 3-1/2	1	
" " " Chain D-40	Double		5'-3" Long	1	63040
Water Pump Drive Sprocket	34429	AK DP 8063	Maxel 3-1/2	1	
" " " Chain D-40	Double (Circulating)		6'-0" Long	1	72-D 40
" " " " D-40	Double (Heat Exchanger)		5'-0" Long	1	60-D 40
Governor Pinion 34T	25337	AH D 5789	Cast Iron	1	
" Rod	36166	AK DV 8271	X-1020	1	
" " Bearing	27275	AH D 6531	Cast Iron	7	
" " Roller Bearing			140216 Rollway	7	
" Spring Extension Rod	23424	AH DV 5378	C.R.S.	1	
" " " "	27310	AH DV 6561	"	1	
" " Rod Turnbuckle	23149	AH D 5140	Brz.	1	
" " " Guide	27309	AH DV 6560	Stl.	3	
" Rod Emergency Lever	23272	AH D 5255	Red Brass	1	
" " Bearing Collar	23333	AH DV 5309	1020 T & G	14	

Washington Marine Diesel 10-1/4"x13-1/2"  
 Gears and Sprockets List

QUANTITIES ARE PER Engine

6- Cyl. Direct Reversing

Fresh Water Cooling

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35737-A0

DATE May 7, 1943

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Exhaust Manifold	35764	UU DM 8190	Steel	1
" " End Plate	35765	AH DM 8191	Steel	2
" " Flange	35766	AH D 8192	Cast Iron	1
" Water Flange	15073	AK D 2772	Cast Iron	2
" " " Gasket	35795	AE DL 8219	Rubber	2
" Flange Gasket	35795	AE DL 8217	Asbestos	3
Water Outlet Branch	35767	AK D 8193	Gun Metal	6
" " " Gasket	35795	AE DL 8221	Rubber	6
" " " Gasket	35795	AE DL 8222	Rubber	6
Water Inlet Manifold	27226	AE D 6488	Cast Iron	2
" " " Pump Connection	35780	AK D 8201	Cast Iron	1
" " " Gasket	35795	AE DL 8227	Rubber	3
" " " Gasket	35795	AE DL 8223	Rubber	6
Air Intake Manifold	27300	AE DM 6552	Pipe	1
" " " Gasket	35796	AE DL 8228	Rubber	6
Fuel Manifold	35781	AE DM 8202	Pipe	1
" " Nipple	35781	AE DM 8203	C. R. Stl.	6
" " Air Chamber	35798	AH D 8234	Cast Iron	1
" " PUMP CONNECTION	35781	AE OP 8302	TUBE	1
Oil Cooler Pipe Connector	35804	AH D 8235	Cast Iron	2
" " " " Flange		2" Standard	Cast Iron	4
" " " " Gasket	35796	AE DL 8236	Rubber	4
LUBR. OIL MANIFOLD BRACKET	26761	AH D 6342	CAST IRON	4
" " " " CAP	"	D 6343	"	4
Exhaust Spark Arrester		SDM-6	Burgess	1
Heat Exchanger	Alaskan	8" Dia.	80 Sq. Ft.	1
Oil Cooler	"	4" Dia.	10 Sq. Ft.	1

WASHINGTON MARINE DIESEL 10-1/4" x 13-1/2"  
6 Cylinder Manifold List

QUANTITIES ARE PER Engine

Fresh Water

Fresh Water Cooling

DRAWN CHECKED APPROVED  
RZ RZ

DRAWING NUMBER  
35738-A0

DATE  
May 7, 1945



WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Crank Shaft Bearing Center	27208 AK	D 6168	Cast Iron	5
" " " Cap	27211 AK	D 6171	" "	5
" " " Inter	27209 AK	D 6169	" "	4
" " " Cap	27210 AK	D 6170	" "	3
" " " Cap For'd	27212 AK	D 6172	" "	1
" " Oil Retainer	22713 AK	D 1711-A	Cast Iron	1
" " " "	22714 AK	D 3412-A	" "	1
" " Oil Slinger	27251 AH	DS 6509	Steel	1
" " Bearing Bolts	17959 AH	DF 3415	C.R. Stl.	24
" " Bearing Studs	17959 AH	DF 6510	" " "	4
" " Shims Main	27155 AK	DL 6179	Laminum	10
" " " Inter	27155 AK	DL 6180	"	8
Cam Shaft Bearing	8094 AE	D 333	Cast Iron	2
" " " Cap	8094 AE	D 334	" "	2
" " " "	21434 AE	D 4614	" "	6
" " " Cap	21434 AE	D 4615	" "	6
" " Ventilator Door	31694 AE	D 7797	Cast Iron	2
" " Door	27245 AE	D 7798	" "	4
" " " Yoke	18831 AE	D 3730	Cast Stl.	6
" " " Nut	18831 AE	D 3731	Brass S.C.	6
" " " Stud	18831 AE	DF 4530	C.R. Stl.	6
" " " Spring	18831 AE		Steel	6
"A" Frame Cover	33382 AH	DF 7788	Steel	6
Aft. Side Plate Door	19516 AE	D 3782	Cast Iron	1
" " " " Yoke	19516 AE	D 3783	Cast Stl.	1
" " " " " Stud	19516 AE		C.R. Stl.	1
A FRAME COVER GASKET	35795 AE	DL 8220	CORK	6
CAM SHAFT DOOR	"	DL 8226	"	6
" " " "	"	DL 8225	"	1
CAM SHAFT BRG. SHIMS	9701 AF	DL 938	LAMINUM	4
" " " "	23420 AK	DL 5375	"	12

Cam Shifter Over Cam Shaft

6 CYLINDER SHAFT BEARING LIST

QUANTITIES ARE PER Engine

WASHINGTON DIESEL 10-1/4" x 13-1/2"

Direct Reversing Without Sailing Clutch

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35776-A0

DATE June 9-1943

SHAFT BEARINGS LIST - 6 Cylinder

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Cylinder Liner	26809	AE D 6378	Cast Iron	1	
" Head	26807	UU D 6376	" "	1	
" Hand Hole Plates	36215	AH D 249	" "	2	
" Oil Pipe	9782	AE DC 5675	Copper	1	
" " " Packing Nut	9782	AE DC 623	Stl.	1	
" " " Sleeve	6408	AE D 622	Cast Iron	1	
" Water Nipple	8062	AE DC 1119	Copper	6	
" " Grommets	"	AE 3-A		6	
" Head Gaskets	12382	AH 1-Q	Copper Asbestos	1	
" " Cover Plate	27266	AH DC 6523	Steel	2	
" " " GASKET	35795	AE OL 8224	RUBBER	2	
Cylinder Head Stud	8062	AE DC 866	Maxel 3½	8	
" Jacket Hand Hole Cover Gasket	35795	AE DL 8223	Rubber	1	
" Liner Water Seal Ring	5/16 Dia. x 39"	Long	Rubber	2	D.B. 8502
Piston	35742	AE D 8166	Cast Iron	1	
" Wrist Pin	35743	AK DC 8167	Maxel #1	1	
" Wrist Pin Cap	35744	AH D 8168	Cast Iron	2	
" " " " Rod	"	" DC 8169	Maxel #1	1	
" Ring Compression	10 1/2 x 3 1/2"		Cast Iron	5/1	18 B. 8503 10 B. 8504
Connecting Rod	27095	AE D 6384	S.C.	1	
" " Bushing	27096	AH D 6385	Baldwin Metal	1	
Crank Pin Bearing	35734	AK D 8164	S.C.	1	
" " "	35734	AK D 8165	S.C.	1	
" " " Shims	27155	AK DL 6423	Laminum	2	
" " " Bolts	27978	AH DC 6700	Maxel #1	2	
" " " " Nuts	"	" Elastic Stop Nut - Steel		2	59TE182

WASHINGTON MARINE DIESEL 10 1/4" x 13 1/2"

SCINTILLA FUEL PUMP CYLINDER LIST

QUANTITIES ARE PER CYLINDER

CYLINDER LIST

DRAWN	CHECKED	APPROVED	DRAWING NUMBER	DATE
R.Z.	R.Z.		35739-A0	May 7-1943

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER		MATERIAL	NO. REQ.	
Cylinder Relief Valve	13010	AK	DV	2142	M. Stl	1
" " " Body	13010	AK	DV	2141-A	M. Stl	1
" " " Nut	13010	AK	DV	2144	M. Stl	1
" " " Lock Nut	13010	AK	DV	2145	Stl	1
" " " Spring	"	"	DV	2143	Stl	1
<del>" " " Nipple</del>	<del>6446</del>	<del>AE</del>	<del>DV</del>	<del>727</del>	<del>Stl</del>	<del>1</del>
Compression Release Lever	25376	AH	DV	5827	C.R.S.	1

WASHINGTON DIESEL 11½ x 15 - 12¾ x 16" - 10½ x 13½" - CYLINDER RELIEF VALVE LIST

CYLINDER RELIEF VALVE LIST

QUANTITIES ARE PER CYLINDER  
 DRAWN R.Z. CHECKED R.Z. APPROVED  
 DRAWING NUMBER 25400-A0 DATE Sept. 17-1935





WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Governor Drive Housing	27267	AE D 6524	Cast Iron	1
" Housing Side Plate	25349	AK D 5801	" "	1
" Case	7731	AE D 384	" "	1
" End Plate	"	" D 386	Gun Metal	1
" Case Cover	"	" D 387	Cast Iron	1
" Body	7730	UU D 388-A	Gun Metal	1
" Weight Lever	"	" D 389	" "	2
" "	"	" DV 974	M. Stl	2
" Guide Piece	"	" D 390	Cast Iron	1
" Body Cover	"	" D 391	" "	1
" Bushing	"	" DV 761	Stl	1
" Thrust Bearing-200%	Gurney	# 7303		2
" " " 200%	"	# 7306		1
" HOUSING GASKET	35797	AE DL 8238	CORK AND PAPER	1
Governor Drive Shaft	25356	AH DV 5808	M. Stl.	1
" " " Bearing	Fafnir	# 7305		2
" Push Rod	25357	AH DV 5809	C.R. Stl.	1
" " " Lever	25358	AH D 5810	Ph. Brz.	1
" " " Roller	21754	AH DV 4931	Stl.	1
" " " Bushing		A 716	Oilite	1
" Body Miter Gear 30 T	25338	AH D 5790	Cast Iron	1
" " Drive " 30T	25339	AH D 5790-A	" "	1
Governor Separator Plate	7731	AE D 385	Cast Iron	1
" " GASKET	35797	AE DL 8231	CORK	2
" END PLATE GASKET	"	" DL 8232	"	1
" COVER " "	"	" DL 8233	"	1
TACHOMETER DRIVE SPINDLE	23751	AH DV 5500	M. STL.	1

Washington Diesel 10-1/4" x 13-1/2"

GOVERNOR LIST  
3, 4 and 6 Cylinder

QUANTITIES ARE PER Engine

Governor List

DRAWN R.Z.	CHECKED R.Z.	APPROVED	DRAWING NUMBER 27285-A0	DATE Mar. 30, 1937
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WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Governor Rod Lever	27279	AH D 6533	Gun Metal	1
" Control Lever	21755	AH D 4932	Gun Metal	1
" " Rod Spring Lever	27283	AH D 6537	Gun Metal	1
" Rod Lever Link	27280	AH DV6534	C. R. Steel	1
" Bell Crank Links	27281	AH DV6535	C. R. Steel	2
" Link Universal Block	21757	AH DV4934	C. R. Steel	1
" Control Shaft	27284	AH DV6538	1020 T & G	1
" " " Collar	23333	AH DV5309	1020 T & G	2
" " " Bearing		# 140216	Rollway	3
" Spring Bell Crank	27278	AH D 6532	Gun Metal	1
" " " " Plate	27282	AH DV 6536	Steel	1
" " " " Pin	25396	AH DV 5846	1020 H. R.	1
Governor Spring	21777	AH DV 4950	Steel	1
Governor Control Sh. Brg.	25397	AK D 5847	Cast Iron	1
" " Sheave	35789	AH DV 8212	Maxel 3-1/2	1
" " " Shaft	35788	AH DV 8211	1020 T. & G.	1
" " Shaft Bushing	25397	AK A 838-2	Oilite	2
" " Hand Lever	35790	AH D 8213	S. C.	1
" " Stop Pin	22496	AK DV 4986	C.R. Stl.	1

WASHINGTON MARINE DIESEL 10-1/4" x 13-1/2"  
 Governor Control Lever List

QUANTITIES ARE PER Engine

SCINTILLA PUMPS Direct Reversing

Electric Control

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35755-A0

DATE May 17, 1943





WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Fuel Pump	Type FC-16	10 16406-1		1
" Spray Valve Complete	HCV-175	10 18358-3		1
" " Nozzle	6 Holes	.3 MM	130° Angle	1
" " " Gasket	12756	AH	#10-8427	1
" " " Yoke	20127	AH DV 4138	Mach. Stl.	1
Fuel Pump Tappet	32508	AK DP 7719	Mach. Stl.	1
" " " Pin	27205	AK DV 6465	Maxel #1	1
" " " Roller	32510	AH DP 7721	" "	1
" " " " Bushing	32510	AH DP 7722	Oilite	1
" " " Guide	32509	AE D 7720	Cast Iron	1
" " " " Shim	32404	AH DP 7616	Steel	6
" " " Cap	32402	AK DP 7718	Steel	1
Fuel Pump Control Lever	36167	AK D 8272	Bronze Per Eng.	5
" " " "	"	" D 8272-A	" Per Eng.	1
" " " " Pin	36168	AH DP 8273	C.R.S.	1
Fuel Pump Priming Lever	32406	AK D 7619	S.C. Per Eng.	1
Fuel Pump Cam Body	31784	AE DV 7477	F. Steel	1
" " " Hub	27201	AE D 6460	Cast Iron	1
Fuel Oil Service Pump	35770	AK #2-R	Per Eng.	1
Fuel Oil Service Pump Bracket	35770	AK D 8197	Cast Iron Per Eng.	1
" " " " Oil Seal	National	#50041	Per Eng.	1
Fuel Inlet Pipe Connection		10-16463	Scintilla	2
" " " Housing		10-16464	Scintilla	2
Fuel Inlet Pipe	35781	AE DP 8302	Copper	1
<i>Fuel Oil Filter</i>	<i>Winnalox</i>	<i># 1550</i>		
<i>High Pressure Fuel Filter</i>	<i>35747</i>	<i>DP 8480</i>		

Washington Marine Diesel 10-1/4" x 13-1/2"

Except as noted  
QUANTITIES  
ARE PER Cylinder

Scintilla Fuel Pumps

Fuel Pump List

6-Cylinder Direct Reversing

DRAWN R.Z.	CHECKED R.Z.	APPROVED	DRAWING NUMBER 35740-AO	DATE May 7, 1943
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WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Lubr. Oil Pressure Pump Body	25340	AE D 5791	C. I.	1	
" " Sump Pump Body	25341	AE D 5792	C. I.	1	
" " Pump Center Section	25342	AK D 5793	C. I.	1	
" " " Sump Gear 15 T	25343	AH DP 5794	Kingwell KPK	1	
" " " Sump Gear	25343	AH DP 5794-A	Maxel #3-1/2	1	
Lubr. Oil Pump Pressure Gear	25343	AH DP 5795	Kingwell KPK	1	
" " " Pressure Gear	25343	AH DP 5795-A	Maxel #3-1/2	1	
Lubr. Oil Pump Drive Shaft	35773	AK DP 8198	M. Steel	1	
" " " Driven Shaft	35774	AK DP 8199	M. Steel	1	
" " " Body Bushing	25341	AE A 1304	Oilite	4	
" " " Center Sec. Bushing	25342	AK A 1319	Oilite	2	
" " " Inlet Valve Seat	25350	AH DV 5802	KINGWELL KAT TOBIN BRONZE	4	ONE BOX = 13 PIECES
" " " " " Stop	25351	AH DV 5803	" KINGWELL " KAO	4	ONE BOX = 13 PIECES
" " " " " Plug	25352	AH D 5804	" TOBIN BRZ. "	4	ONE BOX = 13 PIECES
" " " Discharge Valve Seat	25353	AH DV 5805	" KINGWELL " KAK	4	ONE BOX = 13 PIECES
" " " " " Stop	25354	AH D 5806	GUN METAL	4	
" " " Check Valve	1-1/4" Dia.	Steel Balls		8	NO B-8513
" " " Driven Sprocket	25439	AH DP 5881	Maxel #3-1/2	1	
" " " Sprocket Cover	25347	AK D 7799	Cast Iron	1	
" " " Inlet Valve Gasket	1-3/4" x	1-31/32" - #4302 Victor		4	NO B-8514
" " " Stop Valve Gasket	2-1/4" x	2-9/16" - #4390 Victor		8	NO B-8515
" " " Relief Valve	Lonergan	50#	1"	1	(?)
Lubr. Oil Pump Filter	Cuno	EQLF-1		1	
" " " Seal	National	# 50041		2	NO B-8516
Cyl. Lubricator	Manzel	8 Feed - Model 25		1	DB 8505

USE with TUTHILL FUEL SERVICE PUMP

WASHINGTON MARINE DIESEL, 10-1/4" x 13-1/2", 6 Cylinder, Direct Reversing LUBRICATING PUMP LIST

QUANTITIES ARE PER ENGINE

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35763-A0 DATE June 7, 1943

LUBRICATING PUMP LIST (For Drive Sprocket and Chain, See Key List)

WASHINGTON IRON WORKS — SEATTLE, U.S.A.



WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Centrifugal Water Pump Body	35757	AE D 8186	Gun Metal	1
" " " Bracket	30741	AE D 7181	Cast Iron	1
" " " Cover	35758	AK D 8187	Gun Metal	1
" " " Rotor	29074	AK D 6829	" "	1
" " " Shaft	29075	AK DP 6830	Rezialtal	1
" " " Gland	23788	AH D 5525	Gun Metal	1
" " " Shaft Brg.	PAFNR	# 5307		1
Centrif. Water Pump Sh. Bushing	29077	AH DF 6834	Gun Metal	1
" " " Shaft Nut	23787	AK D 5528	Gun Metal	1
" " " Sprocket	25367	AH DP 5819	Maxel 3-1/2	1
" " " Flange	Standard	2"	Gun Metal	2
" " " Gasket	35796	AE DL 8236	Rubber	2
" " " Packing	5/16 Sq.	# <del>234</del>	Garlock	

WASHINGTON MARINE DIESEL, 10-1/4 x 13-1/2, 6 Cylinder, 2" Pipe

QUANTITIES ARE PER Engine

Centrifugal Water Pump List - Heat Exchanger

DRAWN R.Z. CHECKED R.Z. APPROVED

DRAWING NUMBER 35761-A0

DATE May 24, 1943

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER		MATERIAL	NO. REQ. -	
Air Pump Cylinder	18849	AE	D	3502	Cast Iron	1
" " " Head	18862	AE	D	3517	Cast Iron	1
" " " Piston	14174	AK	D	2564	Cast Iron	1
" " " Rings- 6½"x3/8"					Cast Iron	3
" " " Wrist Pin	14176	AH	DP	2567	Maxel 3½	1
" " " " " Bushing	14174	AK	D	2565	Ph. Brz.	2
" " " Connecting Rod	27243	AK	D	6499	S.C.	1
" " " Eccentric	27242	AK	D	6498	S.C.	1
" " " Bearing	21515	AK	D	4680	S.C.	1
" " " " "	"	"	D	4681	S.C.	1
" " " Bolt	21517	AH	DP	4682	Maxel 1 B	2
" " " Intake Valve	Chicago Pneumatic No.1					1
	With Unloading Yoke					
" " " Valve Spacer	18871	AH	DP	3722	Pipe	1
" " " " " Head	18861	AK	D	3516	Cast Iron	1
" " " Discharge Valve	Chicago Pneumatic No.1					1
" " " " " Head	18861	AK	D	3515	Cast Iron	1
" " " Unloading Valve Head	15078	AH	DV	2781	Brz.	1
" " " " " Piston	30779	AH	DP	7221	Cast Iron	1
" " " " " Plunger	30779	AH			Leather	1
" " " Intake Elbow	18937	AK	D	3727	Cast Iron	1
" " " ECC. BRG. SHIM	23420	AK	DL	5376	LAMINUM	2
" " " CYL. HEAD GASKET	35796	AE	DL	8229	ASBESTOS	1
" " " DISCHARGE VALVE "	"	"	DL	8230	CORK	1
" " " Unloader Pilot Valve	Quincy			VD		1
POP VALVE ¾ LUNKENHEIMER FIG. 1766 -				300#		1

1013 8508

CPIS

CPID

(?)

1013 8509

1013 8510

6½" Dia. x 4¼"

WASHINGTON DIESEL 10¼" x 13½"

AIR PUMP LIST

QUANTITIES ARE PER ENGINE

AIR PUMP LIST

DRAWN R.Z.	CHECKED R.Z.	APPROVED	DRAWING NUMBER 27241-A0	DATE Mar. 13-1937
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WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Governor Control Bracket	36172	AK DV 8277	Steel	1	
Aux. Cam Shifter Valve Lever	36174	AK DV 8282	Steel	1	
" " " " Plate	36174	AK DV 8283	Steel	1	
Aux. Starting Valve Bracket	36173	AK DV 8278	Steel	1	
" " " "	36173	AK DV 8279	Steel	1	
" " " Shifter Pin	36173	AK DV 8280	Steel	1	
Aux. Starting " " Block	36173	AK DV 8281	Steel	1	
Starting Air Valve	1-1/2"	Lunkenheimer	Balanced Whistle Valve - 300#	1	LU 691
Starting Valve Operating Cyl.	30780	AK DV 7222	Bronze	1	
" " " Cyl. Head	30780	AK DV 7223	M. Steel	1	
" " " Piston	30780	AK DV 7224	Cast Iron	1	
" " " Stem	30780	AK DV 7225	M. Steel	1	
" " " PLUNGER	"	" DV 8360	LEATHER	1	
STARTING AIR BLEEDER VALVE	3/8"	LUNKENHEIMER	WHISTLE 200#	1	LU 477 3/8
Aux. Starting Valve	3/8"	Lunkenheimer	Whistle 200#	2	" " 3/8
" Cam Shifting Valve	1/2"	"	" 200#	1	LU 474
Cam Shaft Operating Valve	No Pak	3/8" Four	Way - 250#	1	DB 8556

SCINTILLA PUMPS

Washington Marine Diesel 10-1/4" x 13-1/2" 6-Cylinder Engine Control List

QUANTITIES ARE PER

Engine.....

WITHOUT CLUTCH

DRAWN R.Z.

CHECKED R.Z.

APPROVED

DRAWING NUMBER 35762-A0

DATE May 23-1943



WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Cylinder Head with Attached small Studs	26807	VV D 6376	Cast Iron	1
Cylinder Head Gasket		1 Q	Copper Asbestos	2
Cylinder Head Grommets		3 A	Rubber	48
Cylinder Liner	26809	AE D 6378	Cast Iron	1
Cylinder Liner Rubber Ring		5/16" <del>3/8"</del> Round		2
Cylinder Oil Feed Pipe	9782	AE DC 5675	Copper	2
Cylinder Oil Feed Pipe Sleeve	6108	AE D 622	Cast Iron	2
Cylinder Relief Valve - Comp.		DV 2141-C		2
Main Valves - Complete with cages and springs		D 6380-C		4
Main Valve Cage Gasket	12720	AH 1-V-10	Copper	12
Main Valve Rocker Arm - Comp.		D 6390-C		1
Main Valve Lifter - Complete		DV 6757-C		1
Main Valve Lifter Guide	28993	AH D 6756	Cast Iron	1
Fuel Injection Valve - Comp.		HCV 175	10-18358-3	2
Fuel Inj. Nozzle Valve Assy.		10 16714		1
Fuel Inj. Nozzle Tip		10 16728-7		2
Fuel Inj. Valve Spring		10 16731		2
Fuel Inj. Valve Gasket		10 8127		4
Starting Air Inlet Valve Comp.		D 3696-C		1
Starting Air Inlet Valve Spring	18922	AE DV 3698		1
Starting Air Inlet Valve Gasket		1-V-8	Copper	2

HP 13852

Washington Marine Diesel 10-1/4 x 13-1/2 6 cyl.

SPARE PARTS

QUANTITIES ARE PER

ENGINE

DRAWN CHECKED APPROVED

DRAWING NUMBER

DATE

April 28, 1944

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER		PART NUMBER	MATERIAL	NO. REQ.	
Air Distr. Valve - Complete			D 6758-A-0		1	
Air Distr. Valve Spring	15085	AK	DV 2792	Steel	1	
Piston	35742	AE	D 8166	Cast Iron	1	
Piston Wrist Pin	35743	AK	DV 8167	Maxel 1-B	1	
Piston Compression Ring			10 $\frac{1}{4}$ Dia.		12	NO B8503
Piston Oil Ring			10 $\frac{1}{4}$ Dia.		2	NO B8504
Connecting Rod with Bushing			D 6384-C		1	
Crank Pin Bearing - Complete			D 8164-C		1	
Crank Pin Brg. Bolt & Nut	27978	AH	DC 6700	Maxel 1-B	2	
Fuel Injection Pump - Complete			FC 16		1	
Fuel Pump Tappet - Complete			DP 7719-C		1	
Fuel Pump Tappet Guide	32509	AE	D 7720	Cast Iron	1	
Fuel Pump Shim	32404	AH	DP 7616	Steel	1	
Fuel Pump Inlet Pipe			DP 8302		1	
Fuel Pump High Pressure Line			5/16"		3	DP 8480
Governor Thrust Brg.			7303		2	
Governor Pinion Brg.			7305		2	
Governor Drive Gear			7306		1	

Washington Marine Diesel 10-1/4 x 13-1/2 6 cyl.

SPARE PARTS

QUANTITIES ARE PER

ENGINE

DRAWN CHECKED APPROVED

DRAWING NUMBER

DATE  
4-28-44

WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Water Pump Ball Bearing		5307		1	
Water Pump Ball Bearing		5305		1	
Water Pump Packing			Roll	1	WB 8506 = 3/8" WB 8507 = 5/16"
Water Pump Drive Chain			6'-0"	1	72090
Water Pump Chain Offset Links				2	WB 8518
Lube Pump Relief Valve			1-1/4"	1	
Air Pump Suction Valve		C.P-1S		1	
Air Pump Discharge Valve		C.P-1D		1	
Air Pump Piston Rings		6 1/8" Dia.		3	
Air Reducing Valve Complete			#21	1	DB 8511
Air Pump Unloader Valve		Quincy	V.D.	1	WB 8509
Manzel Lubr. Sight Glass		1949-8		2	
Manzel Lubr. Gauge Glass		6081		1	
Day Tank Gauge Glass & Fittings		DB 8567		2 sets	
Thermometers - Oil & Water		DB 8519	1/2"	4	

Washington Marine Diesel 10-1/4 x 13-1/2 6 cyl.

SPARE PARTS

QUANTITIES ARE PER ENGINE

DRAWN CHECKED APPROVED

DRAWING NUMBER

DATE  
4-28-44



WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.
Nozzle Cleaning Wire				1
Nozzle Cleaning Wire Vise				1
Piston Pulling Bar				1
Engine Turning Bar				1
Fuel Pump Priming Bar				1
<i>Fuel Rack</i>		<i>Wms # 968 R</i>		
Main Valve Puller				1
Column Bolt Box Wrench				1
Cyl. Hd. Bolt Box Wrench				1
Fuel Nozzle Nut Wrench	<i>Wms</i>	<i>807-A</i>		2
Main Valve Spring Nut Wrench	<i>Wms</i>	<i># 27</i>		1
Safety Set Screw Wrenches	<i>Wms #</i>			1 Set
Open End Wrenches	<i>Wms</i>			1 Set
Engine Jacking Screws - 1-1/2" Dia. x 8" Dog Point - Case		Square Head Hardened	Set Screw	6

ENGS. 7511 to 7526, inc.

WASHINGTON MARINE DIESEL - 10 1/4" x 13 1/2" - 6 CYLINDER

QUANTITIES ARE PER ENGINE

TOOLS -

DRAWN R.Z.	CHECKED	APPROVED R.Z.	DRAWING NUMBER 35772-A0	DATE JUNE 22, 1943
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WASHINGTON IRON WORKS — SEATTLE, U.S.A.

DESCRIPTION	DRAWING NUMBER	PART NUMBER	MATERIAL	NO. REQ.	
Gauge Board	36709 AM		Steel Plate	1	
Main Starting Air Gauge		400#		2	NB 8522
Maneuvering Air Gauge		300#		1	NB 8521
Lubr. Oil Gauge		50#		1	NB 8521
Pyrometer - Instrument Laboratory Model		10 - 0 to	1000° F. <i>Whitlock</i>		
<i>Thermocouples in 12 1/4" 3"</i>		6 point	Selector Switch	1	
Tachometer Receiving Unit -	Huletz Auto	Electric Co.	#102-AFL-12	1	
Eng. Speed 360; Takeoff speed	574 RPM	<i>Stewart</i>			
<i>Tachometer Receiver</i>		102 AF			
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<i>Speedometer (3.7.33)</i>		100-9			
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6 Cylinder Engines - #7511 to #7526

Washington Marine Diesel 10-1/4" x 13-1/2" GAUGE BOARD LIST

QUANTITIES ARE PER Engine

DRAWN R.Z.	CHECKED R.Z.	APPROVED	DRAWING NUMBER 35771-A0	DATE June 5 - 1943
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12' to REMOVE  
STRAINER BASKET

2" FILL AND VENT

1/4" INLET

1/4" OVERFLOW

12" DIA

3'-4"

GAUGE GLASS

1/4" OUTLET

1/2" DRAIN

6-CYL. 240 H.P.  
ENGS. # 7511 TO 7526

WASHINGTON IRON WORKS  
SEATTLE, WASH.

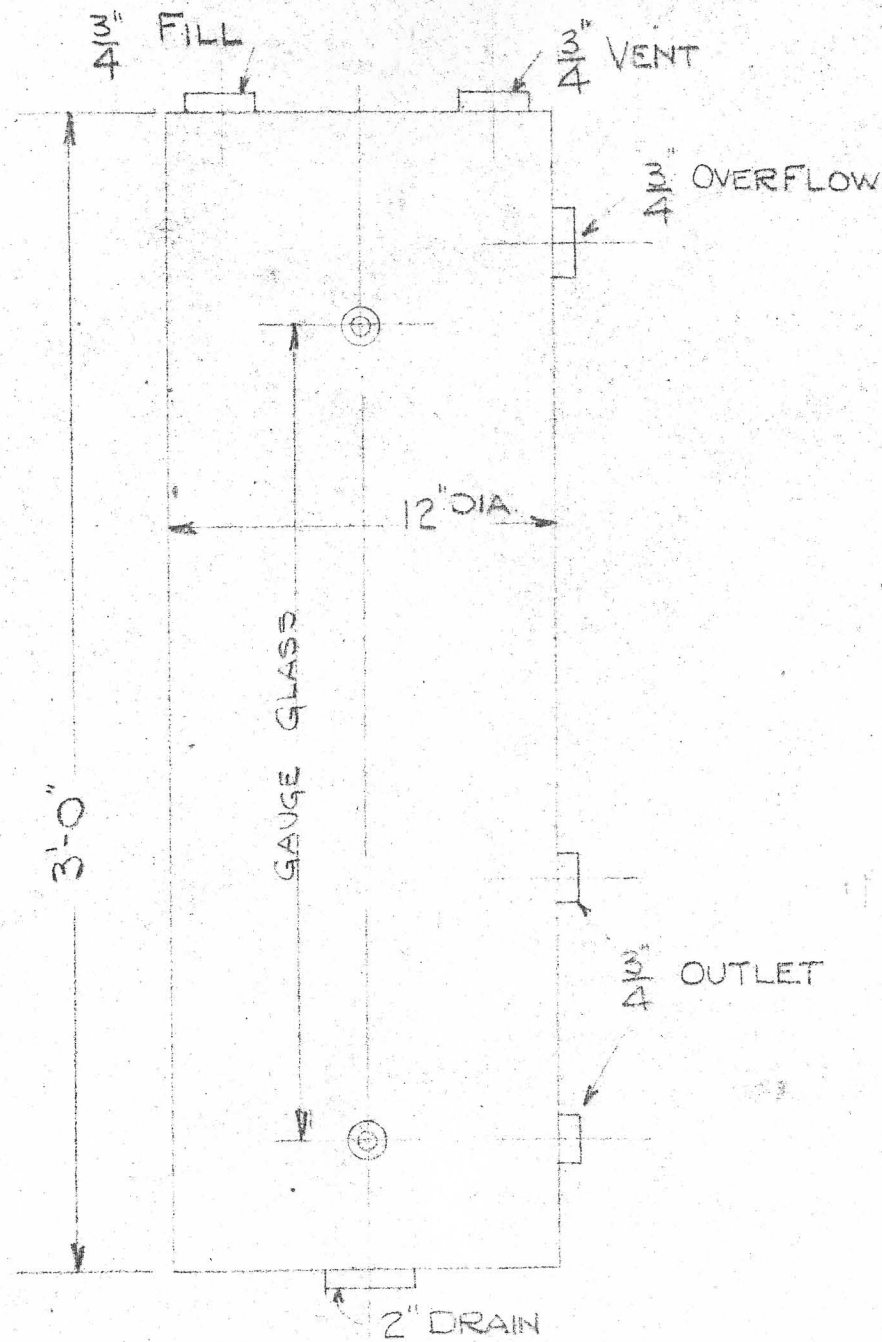
WASHINGTON DIESEL  
LUBRICATING OIL TANK

DR. R. Z. TR. CH. RZ AP

SCALE 2" = 1 FOOT

DW. JULY-31-1943

WT. 63 LB.



6 CYL. 240 H.P.  
 ENG. # 7311 TO 7526

WASHINGTON IRON WORKS	
SEATTLE, WASH.	
WASHINGTON DIESEL	
FUEL OIL DAY TANK	
DR. R. Z. TR.	CH. R. Z. AP.
SCALE	
DW.	JULY 31-1943

WT. 45 LB



2" SALT WATER OUTLET - OVERBOARD

EITHER END MAY BE USED  
FOR INLET OR OUTLET

1/2" FRESH WATER

1/2" FRESH WATER

2" SALT WATER INLET  
FROM LUBR. OIL  
COOLER

1 1/2" DIA

1/2" DRAIN

7'-0"

TO REMOVE TUBES

7'-0 3/4"

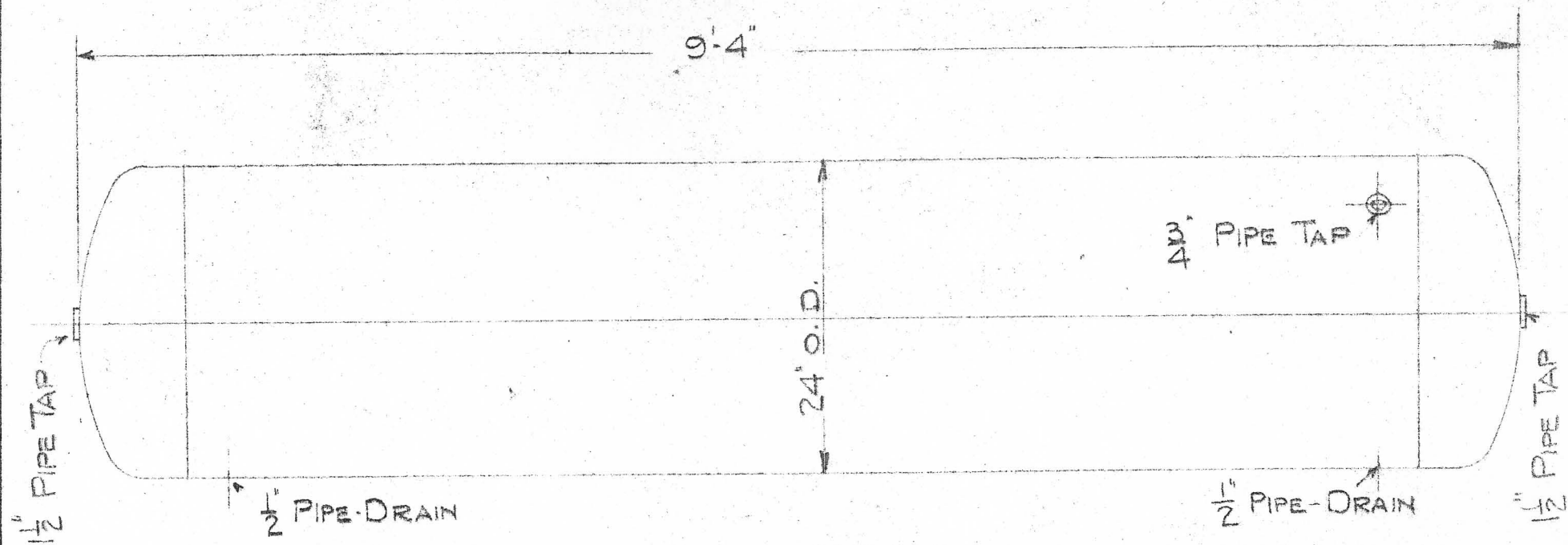
7'-5 3/4"

80 Sq Ft.

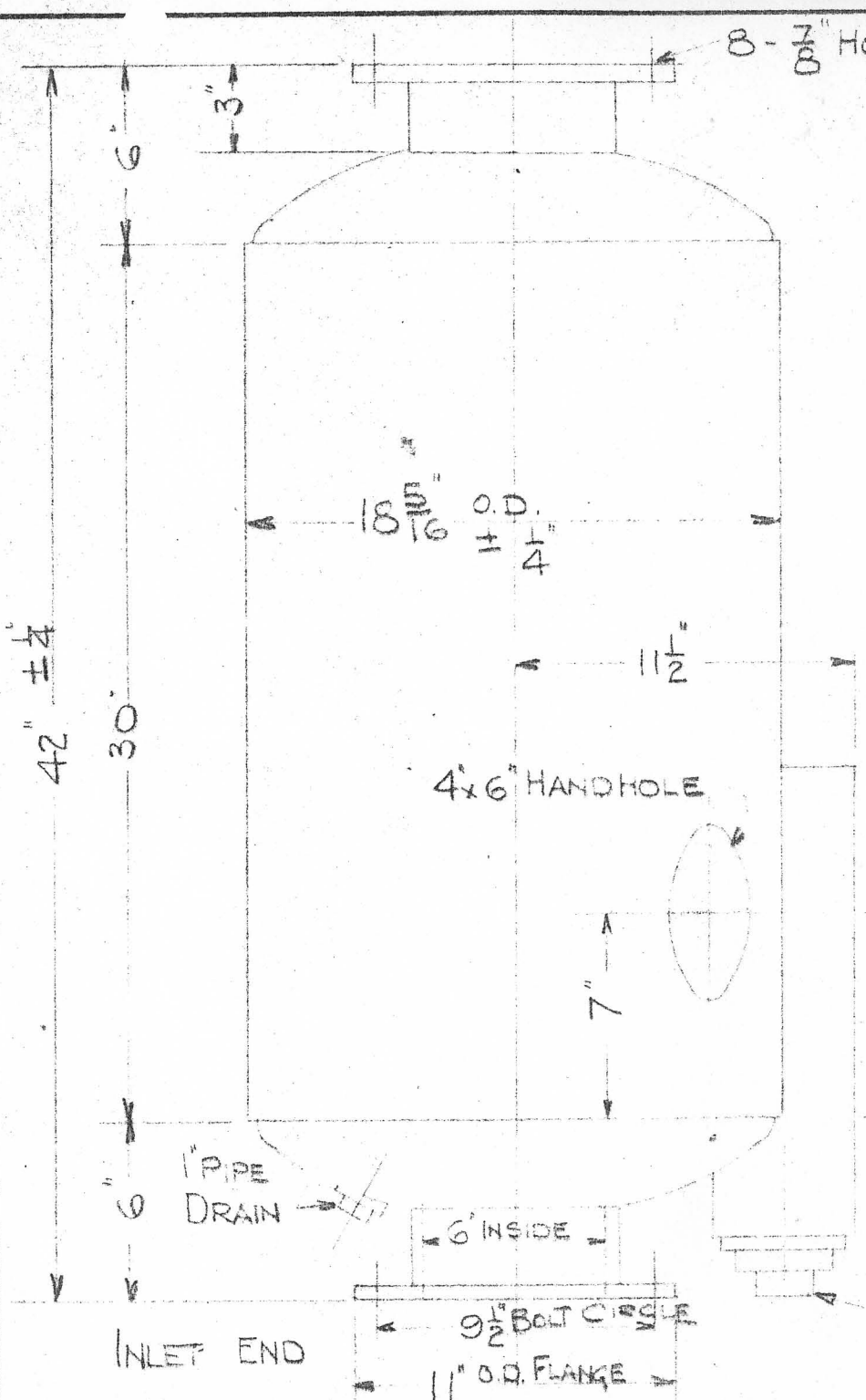
6-CYL. 240 H.P.

ENGS. 7511 to 7526

WASHINGTON IRON WORKS  
SEATTLE, WASH.  
WASHINGTON DIESEL  
HEAT EXCHANGER  
DR. R. Z. TR. CH. R. Z. AP  
SCALE



WASHINGTON IRON WORKS  
 SEATTLE, WASH.  
 WASHINGTON DIESEL  
 STARTING AIR TANK  
 DR. R. Z. TR. CH. R. Z. AP.  
 SCALE \_\_\_\_\_  
 DW. \_\_\_\_\_ AUG. 2, 1943



8 - 7/8" HOLES

3"

6"

18 5/16" O.D. ± 1/4"

11 1/2"

4x6" HANDHOLE

7"

1" PIPE DRAIN

6" INSIDE

9 1/2" BOLT CIRCLE

11" O.D. FLANGE

3" PIPE PLUG

BURGESS SDY-6" SPARK ARRESTING SNUBBER

INLET END

INSTALL IN VERTICAL POSITION WITH INLET AT BOTTOM.

APPROX. WEIGHT - 220 LB.

6 CYLINDER 240H.P. ENGS. 7511 TO 7526

WASHINGTON IRON WORKS SEATTLE, WASH.	
WASHINGTON DIESEL EXHAUST MUFFLER	
DR. R. Z. TR.	CH. R. Z. AP
SCALE _____	
DW. _____	JULY 31 1943