



Ferguson

SERVICE MANUAL

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Check Chain Shackle Length	1.189 1.205	30.201 30.607					This dimension taken from pin hole centre to inside face.
Check Chain Assy. Total Length	10.358 10.425	263.093 264.795			10.7	271.76	This length between pin hole centres.
Transmission.							
Shifter Mechanism.							
Shifter Rail Dia.	.7465 .7475	18.961 18.987					
			.0015 .0035	.038 .089	.006	.152	←
Shifter Rail Bore in Casing	.749 .750	19.025 19.050					
Plunger Spring Details.	Axial load 12 ± 1 lb. Load may be increased in increments of 3 lbs. (1.361 kg) by fitting $1/16"$ (1.588 mm) shims up to a maximum of $5/16"$ (7.938 mm) giving max. load of 27 lbs. (12.247 kg). Free length 1.571" (39.903 mm). Solid length .832" (21.133 mm). Nominal fitted length 1.32" (33.528 mm).						
Thickness of Shifter Forks at Pressure Faces.	.372 .368	9.449 9.347	.008 .016	.203 .406	.025	.634	
Width of Groove in Coupling Connectors	.380 .384	9.652 9.754					
Mainshaft.							
First Gear Bushing Bore.	2.0620 2.0635	52.375 52.413					
			.0015 .0052	.038 .132	.007	.177	
Mainshaft Dia. at Position of 1st Gear	2.0605 2.0583	52.337 52.281					
2nd Gear Bushing Bore.	2.0620 2.0635	52.375 52.413					
			.0015 .0052	.038 .132	.007	.177	←
External Dia. of Bearing Connector	2.0605 2.0683	52.337 52.281					
Countershaft.							
3rd. Gear Bushing Bore.	2.0620 2.0635	52.375 52.413					
			.0015 .0052	.038 .132	.008	.203	
Ext. Dia. of Counter-shaft 3rd. Gear Bush	2.0605 2.0583	52.337 52.281					
4th. Gear Bushing Bore	2.0635 2.0620	52.413 52.375					
			.0052 .0015	.132 .038	.007	.177	
Ext Dia. of Connector Bearing.	2.0605 2.0583	52.377 52.281					
Reverse Gear Bushing Bore	1.1250 1.1256	28.575 28.590					
			.002 .003	.051 .076	.008	.203	
Reverse Shaft Dia.	1.123 1.122	28.524 28.499					
End Float—Main & Countershaft.			See Remarks				Fit shims behind mainshaft bearing retainer and P.T.O. Shaft bearing support to give preload of 7 to 12 lbs. ins. (.081—.138 kg.m) on main and countershafts.

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Backlash(A) —Sliding Coupling and Mating Teeth on Gear Wheels			(B) —Sliding coupling and mating teeth on connectors—		(C) —Gear teeth—		
.008" .203 mm			.0005"	.013 mm.	.004"	.102 mm.	
.010" .254 mm			.0015"	.038 mm.	.008"	.203 mm.	

Power Take-off Shaft.

Rear splines $6 \times 1.92"$ (48.77 mm) long $\times 1.121"$ (28.47 mm) dia. $\times .922"$ (23.42 mm) dia. $\times .275"$ (6.99 mm) wide.
 $1.123"$ (28.52 mm) $.932"$ (23.67 mm) $.277"$ (7.04 mm)
 $21/64"$ (8.33 mm) dia. hole at distance of $1/2"$ (12.7 mm) from shaft end.
 End Cover Int. Dia. $2 1/2"$ (63.5 mm).

Clutch.

Release Shaft Dia.	.997	25.324				
	.996	25.298				
			.004	.102	.010	.254
			.0065	.165		
Bush Bore.	1.001	25.425				
	1.0025	25.464				

Clutch Springs. 9 green springs each of 105 lb. (47.627 kg) to 115 lb. (52.199 kg).
 9 orange springs each of 90 lb. (40.823 kg) to 100 lb. (45.358 kg).

Orange springs superseded green springs after Tractor Serial No. 32872.

Free movement of pedal should be $3/8"$ (9.5 mm). This dimension taken between upper side of pedal and underside of footrest bracket. Movement of release lever ends $1/4"$ (13 mm). Variation in release lever height should not exceed $.015"$ (.381 mm).

Rear Axle.

Backlash — Crown wheel and pinion .004" (.102 mm). Half shaft end float .008" (.203 mm).
 $.025"$ (.634 mm). $.020"$ (.508 mm).
 Clearance between crown wheel and thrust pads .013" (.033 mm).
 $.020"$ (.508 mm).

Front Axle.

Centre Trunnion	1.756	44.602				
Bushing Int. Dia.	1.764	44.806				
Fitted.			.008	.203	.035	.088
			.017	.432		
Centre Pin Dia.	1.747	44.347				
	1.748	44.399				
Bore of Outer Axle for Spindle Bushes	1.3735	34.887				
	1.3745	34.912				
			$\pm .001$	$\pm .025$		
Ext. Dia. Spindle Bushes.	1.3735	34.887				
	1.3745	34.912				
Int. Dia. Spindle Bushes	1.249	31.725				
	1.250	31.750				
			.003	.076	.010	.254
			.005	.127		
Spindle Dia.	1.246	31.648				
	1.245	31.623				

Steering.

Backlash—Screw adjustment against rear faces of segments to give minimum backlash without binding.

Distances between ball centres and vertical plane through drop arm crankshaft centre $2.17"$ (55.12 mm) with steering wheel in straight ahead position.

Pulley Attachment.

Pulley width $6 1/4"$ (165 mm) Dia. $9"$ (229 mm). Gear Ratio to P.T.O. Shaft 1.86 to 1. Backlash between driving gears .004" (.102 mm) $.020"$ (.508 mm)

PETROL ENGINE, PART No. 57963

(Manufactured by the Standard Motor Co.)

ENGINE—80 mm bore, fitted to tractors Type TE-A20, TE-C20.

Stroke 92 mm. Piston Displacement 112.9 cu. ins. (1850 c.c.)

Compression ratio 5.77 to 1.

Maximum belt horse power—23.9.

Tightening Torque—Cylinder Head Nuts 60 to 65 lbs. ft.
(8.25—8.95 kg. metres).
Big End Nuts 42 to 46 lbs. ft.
(5.8—6.4 kg. metres).

Main Bearing Nuts 90 to 100 lbs. ft.
(12.4—13.8 kg. metres).
Flywheel Cap Screws 42 to 46 lbs. ft.
(5.8—6.4 kg. metres).

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Crankshaft.							
Journal Diameter	2.4795 2.4790	62.979 62.967	.0025 .0010	.064 .025	.006 dry	.152	Similar tolerances for re-ground crankshaft to .020", .030", .040" (.508, .762, 1.016 mm) undersize.
Bearing Diameter (Fitted)	2.4815 2.4805	63.030 63.015					
Crankshaft End Float.							
Centre Journal Length.	1.7507 1.7498	44.468 44.445	.0117 .0048	.297 .122	.010 dry	.254	Crankshaft end float controlled by thickness of thrust washers.
Centre Bearing Cap width + 2 thrust washers.	1.7450 1.7390	44.323 44.171					
Big End.							
Crankpin Diameter	2.0861 2.0866	52.987 53.000	.0024 .0006	.061 .015	.006	.152	Similar tolerances for re-ground crankshaft to .020", .030", .040" (.408, .762, 1.016 mm) undersize.
Bearing Diameter	2.0985 2.0872	53.302 52.015					
Connecting Rod End Float.							
Crankpin Length	1.1890 1.1870	30.201 30.150	.0115 .0075	.292 .191			
Con-Rod Width	1.1795 1.1775	29.959 29.909					
Ovality—Journals & Crankpins.					0.002	.051	Minimum diameter to be such that the permissible worn clearance for bearings is not exceeded.
Taper—Journals & Crankpins.					0.002	.051	
Small End.							
Bore for Bush	1.0000 .9995	25.4 25.387	-.0035 -.0050	+.09 -.13			Heat piston in boiling water for removal and fitting of gudgeon pin.
Bush, Ext. Dia.	1.0045 1.0035	25.514 25.489					
Bush, Int. Dia.	.8752 .8738	22.230 22.220	-.00035 -.00030	+.009 -.008			These clearance figures taken at 68°F.
Gudgeon Pin, Dia.	.87510 .87485	22.228 22.221	+.00045 -.00005	+.011 -.001			
Gudgeon Pin Holes in Piston	.8853 .87505	22.233 22.226					

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Pistons & Sleeves.							
Piston Dia.—(Thrust Side Top Skirt)	3.1461	79.908					Sleeves and pistons graded F.G.H. in steps of .0004" (.010 mm). Piston fitted with three rings above gudgeon pin, one ring below. On engines S101E to S56962E a plain bottom scraper ring fitted below gudgeon pin. Similar tolerances for over-size pistons +.020" (.508 mm). Oversize rings +.010" (.245 mm) +.020" (.508 mm) +.030" (.762 mm). Replacement sleeves available as standard size, and rebored +.020" (.508 mm).
	3.1472	79.939	.0028	.071			
Sleeve Bore (Parallel)	3.1492	79.99	.0034	.086			
	3.1503	80.018	.0013	.033			
Piston Dia. (Thrust Side Bottom Skirt)	3.1476	79.949	.0019	.048			
	3.1487	79.977					
Top Land Diameter	3.133	79.578	.0162	.412			
	3.131	79.527	.0193	.490			
Ring Groove Width Top and 2nd.	.0957	2.431					
	.0947	2.405	.0030	.076	.005	.127	
Compression Ring Width Top & 2nd.	.0937	2.380	.0010	.025			
	.0927	2.355					
Ring Groove Width (3rd.)	.1895	4.813	.0030	.076	.005	.127	
	.1885	4.788	.0010	.025			
Scraper Ring Width (3rd.)	.1875	4.763					
	.1865	4.737					
Ring Groove Width (4th.)	.1580	4.013	.0030	.076	.005	.127	
	.1570	3.987	.0010	.025			
Scraper Ring Width (4th.)	.1560	3.962					
	.1550	3.937					
Ring Gap (Closed)			.010	.25			
			.006	.15			
Clearance Between :							
Sleeve & Upper Block			.045	1.143			Dimensions taken respectively at top flange and spigot of sleeve.
			.015	.381			
Sleeve & Lower Block			.003	.076			
			.0005	.013			
Stand-out of Sleeve			.003	.076			Desired clearance when assembled.
			.0055	.140			
Water Pump & Thermostat.							
Housing Bore for Bearing	1.1813	30.005					
	1.1807	29.990					
			+.0007	+.018			
			-.0004	-.010			
Bearing Case, Ext. Dia.	1.1811	30.000					
	1.1806	29.987					
Oil Pump.							
Approximate capacity at 50 lbs. per square inch (3.52 kg/sq. cm.) is 3.95 gallons (16.94 litres) per minute at 2,000 r.p.m. (Engine)							
Outer Rotor, outside dia.	1.598	40.589					
	1.599	40.615					
			.001	.025			
			.003	.075			
Housing, internal dia.	1.601	40.665					
	1.600	40.640					
Rotor depth—outer and inner :	0.9995	25.387					
	0.9985	25.362					
			.0005	.013			
			.0015	.038			
Housing depth	1.001	25.403					A combined worn clearance of .004" (.101mm) indicates need of cover and housing face lapping.
	1.000	25.400					

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Inner rotor, major dia.	1.171	29.743					
	1.172	29.769					
Inner rotor, minor dia.	.729	18.517					
	.731	18.567					
Clearance on rotors			.004 .0005	.102 .013			Where clearance exceeds .010" (.253 mm) new parts should be fitted.

Camshaft.

Front Journal Dia.	2.0590	52.299					
	2.0595	52.311					
Bore in Block	2.0635	52.413	.0045 .0025	.114 .051	.0065	.164	Max. wear on camshaft journals .003" (.076 mm) and .0035 (.088 mm) in cylinder block.
	2.0620	52.375					
2nd Journal Dia.	1.71575	43.580	.0045 .0025	.114 .051	.0065	.164	
3rd. " "	1.71525	43.567					
Rear " "							
Bore in Block	1.71975	43.683					
	1.71825	43.645					
Locating Groove	.1885	4.788	.0065 .003	.165 .076			This clearance determines camshaft end float.
	.1865	4.737					
Locating Plate	.1835	4.661					
	.1820	4.623					

Tappets & Valves.

Tappet Bore in Block	.9380	23.825	.0013 .0002	.033 .005			
	.9373	23.807					
Tappet Dia.	.9371	23.802					
	.9367	23.792					
Valve Tip Clearance Inlet			.010	.254			
			.012	.305			
Valve Guide Bore Dia.	.313	7.950					
	.312	7.925					
Inlet Valve Stem Dia.	.311	7.899	.001	.025			
	.310	7.874	.003	.076			
Exhaust Valve Stem Dia.	.309	7.849	.003	.076			
	.308	7.823	.005	.127			
Guide projection above spring seat.	9/16"	14.3					

Valve seating angle on valve head 45°. Valve seat angle in cylinder head 44½°.

Valve Springs.

Free length 1.716" (43.586 mm). Fitted load 38 lbs ± 2 lb. (17.237 kg ± .907 kg).
Fitted length 1.25 (31.75 mm). Full lift load 60 lb. (27 kg) approx.

Flywheel.

Spigot dia. (for Starter Gear Ring)	13.406	340.512	—.031 —.023	—.787 —.584			Flywheels balanced individually. Held to crankshaft by 4 set screws locked in pairs. Single dowel. Locating holes in flywheel 90° apart, in crankshaft 180° apart.
	13.403	340.436					
Starter Gear Ring Inside Dia.	13.380	339.852					
	13.375	339.725					

Run-out of clutch contact face at outer dia. should not exceed .003" (.076 mm).

Clearance between starter pinion and ring gear, Engine Serial No. S1E—S67028E, .156" (3.962 mm).
Engine Serial No. S67029E onwards .114" (2.896 mm).
Face-up starter mounting flange or fit shims to suit.

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Carburettor.							
Zenith Type 24 T—2.							
Choke Tube	17						
Main Jet	120						
Adj. Needle	12						
S.R. Jet	50						
Progression	120						
Needle Seating	1.5 mm						
Air Jet	2.0						
S.R. Bottom Feed	1.5						
Zenith Type 24T—2 (Min./Max. Adj. Jet)							
Choke Tube		17					
Main Jet		100					
Adj. Needle		1.00 drilled					
S.R. Jet		50					
Progression		120					
Needle Seating		1.5 mm					
Petrol level at 4' 6"		Head 15 mm					
Inter-con		1mm drilled					
Air Jet		2.0					
Petrol Inlet Boss Stamped M-M							
Holley.							
Discharge Nozzle.					.104" (2.642 mm) with 4 holes		
Float Needle Seat					.040" (1.016 mm) dia.		
Main Jet					.081" (2.057 mm) dia.		
High Speed Bleed					.083" (2.108 mm) dia.		
Upper Idle Restriction					.035" (.889 mm) dia.		
Idle Discharge Hole					.0293" (.744 mm) dia.		
Second Idle Discharge Hole					.046" (1.168 mm) dia.		
Venturi					.052" (1.321 mm) dia.		
Fuel Level at 3/4 (.341 kgm) fuel pressure					.046" (1.168 mm) dia.		
Float cut-off position					21/32" (16.669 mm) dia.		
					9/16" ± 1/32" (14.274 ± .787 mm) to top face of fuel bowl.		
					7/16" (11.13 mm) measured between upper casting face and outer float top.		

Governor.

Governor lever spring: Free length: inside hooks 3.8" (96.5 mm). End Play .005" (.127 mm) Rate: 18 lbs/in ± 5%. No of coils: 26. .010" (.254 mm)

Load at 1" (25.4 mm) deflection: 25 lbs. (11.34 kg) + 1 lb. (.454 kg) Initial wound-in load: 7 lbs. (3.175 kg).

Control Rod: Free length: inside hooks 2.687" (68.25 mm). Rate: 64 lbs./in ± 5%. No of coils: 11½.

Compensating Spring: Load at ½" (12.7 mm) deflection: 38 lbs. (17.237 kg) ± 1½ lbs. (.681 kg). Initial wound-in load: 6 lbs. (2.722 kg).

VAPORISING OIL ENGINE, PART No. 500038

(Manufactured by the Standard Motor Co.)

ENGINE—85 mm bore, fitted to tractors Type TE-D20, TE-E20.

Stroke 92 mm. Piston Displacement 127 cu. ins. (2088 c.c.)

Compression ratio 4.8 to 1.

Maximum belt horse power—23.9.

Tightening Torque—Cylinder Head Nuts 60 to 65 lbs. ft.

(8.25—8.95 kg. metres).

Big End Nuts 42 to 46 lbs. ft.

(5.8—6.4 kg. metres).

Main Bearing Nuts 90 to 100 lbs. ft.

(12.4—13.8 kg. metres).

Flywheel Cap Screws 42 to 46 lbs. ft.

(5.8—6.4 kg. metres).

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	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Crankshaft.							
Journal Diameter	2.4795 2.4790	62.979 62.967					
			.0025 .0010	.064 .025	.006 dry	.152	Similar tolerances for re-ground crankshaft to .020", .030", .040" (.508, .762, 1.016 mm) undersize.
Bearing Diameter (Fitted)	2.4815 2.4805	63.030 63.015					
Crankshaft End Float.							
Centre Journal Length.	1.7507 1.7498	44.468 44.445					
			.0117 .0048	.297 .122	.010 dry	.254	Crankshaft end float controlled by thickness of thrust washers.
Centre Bearing Cap width — 2 thrust washers.	1.7450 1.7390	44.323 44.171					
Big End.							
Crankpin Diameter	2.0861 2.0866	52.987 53.000					
			.0024 .0006	.061 .015	.006	.152	Similar tolerances for re-ground crankshaft to .020", .030", .040" (.508, .762, 1.016 mm) undersize.
Bearing Diameter	2.0985 2.0872	53.302 52.015					
Connecting Rod End Float.							
Crankpin Length	1.1890 1.1870	30.201 30.150					
			.0115 .0075	.292 .191			
Con-Rod Width	1.1795 1.1775	29.959 29.909					
Ovality—Journals & Crankpins.					0.002	.051	Minimum diameter to be such that the permissible worn clearance for bearings is not exceeded.
Taper—Journals & Crankpins.					0.002	.051	
Small End.							
Bore for Bush	1.0000 .9995	25.4 25.387					
			-.0035 +.0050	+.09 -.13			Heat piston in boiling water for removal and fitting of gudgeon pin.
Bush, Ext. Dia.	1.0045 1.0035	25.514 25.489					
Bush, Int. Dia.	.8752 .8738	22.230 22.220					
			+.00035 -.00030	+.009 -.008			These clearance figures taken at 68 F.
Gudgeon Pin, Dia.	.87510 .87485	22.228 22.221					
			+.00045 -.00005	+.011 -.001			
Gudgeon Pin Holes in Piston	.8853 .87505	22.233 22.226					

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Pistons & Sleeves.							
Piston Dia.—(Thrust Side Top Skirt)	3.3429	84.905					Sleeves and pistons graded F.G.H. in steps of .0004" (.010 mm).
	3.3438	84.933					
Sleeve Bore (Parallel)	3.3460	84.988					
	3.3471	85.016					
Piston Dia. (Thrust Side Bottom Skirt)	3.3442	84.943					
	3.3453	84.971					
Top Land Clearance			.017	.432			
			.019	.483			
Ring Groove Width Top 2nd and 3rd.	.0797	2.024					
	.0807	2.050					
Compression Ring Width Top 2nd & 3rd.	.0787	1.999	.0030	.076	.005	.127	
	.0777	1.974	.0010	.025			
Ring Groove Width (4th.)	.1895	4.813					Similar tolerances for oversize pistons +.020" (.508 mm). Oversize rings + .010" (.245 mm) + .020" (.508 mm) + .030" (.762 mm). Replacement sleeves available as standard size, and rebored + .020" (.508 mm).
	.1885	4.788					
Scraper Ring Width (4th.)	.1875	4.763	.0030	.076	.005	.127	
	.1865	4.737	.0010	.025			
Ring Groove Width (5th.)	.1580	4.013					
	.1570	3.987					
Slotted Scraper Ring Width (5th.)	.1560	3.962	.0030	.076	.005	.127	
	.1550	3.937	.0010	.025			
Ring Gap (Closed)			.010	.25			
			.006	.15			
Clearance Between :							
Sleeve & Upper Block			.045	1.143			Dimensions taken respectively at top flange and spigot of sleeve.
			.015	.381			
Sleeve & Lower Block			.003	.076			
			.0005	.013			
Stand-out of Sleeve			.003	.076			Desired clearance when assembled.
			.0055	.140			
Water Pump & Thermostat.							
Housing Bore for Bearing	1.1813	30.005					
	1.1807	29.990					
			+ .0007	+ .018			
			— .0004	— .010			
Bearing Case, Ext. Dia.	1.1811	30.000					
	1.1806	29.987					
Oil Pump.							
Approximate capacity at 50 lbs. per square inch (3.52 kg/sq. cm.) is 3.95 gallons (16.94 litres) per minute at 2,000 r.p.m. (Engine)							
Outer Rotor, outside dia.	1.598	40.589					
	1.599	40.615					
			.001	.025			
			.003	.075			
Housing, internal dia.	1.601	40.665					
	1.600	40.640					
Rotor depth—outer and inner :	0.9995	25.387					
	0.9985	25.362					
			.0005	.013			
			.0015	.038			
Housing depth	1.001	25.403					A combined worn clearance of .004" (.101mm) indicates need of cover and housing face lapping.
	1.000	25.400					

Component Details	Dimensions New		Clearance New		Permissible Worn Clearance or Dimension		Remarks
	Ins.	mms.	Ins.	mms.	Ins.	mms.	
Inner rotor, major dia.	1.171 1.172	29.743 29.769					
Inner rotor, minor dia.	.729 .731	18.517 18.567					
Clearance on rotors			.004 .0005	.102 .013			Where clearance exceeds .010" (.253 mm) new parts should be fitted.
Camshaft.							
Front Journal Dia.	2.0590 2.0595	52.299 52.311					
Bore in Block	2.0635 2.0620	52.413 52.375	.0045 .0025	.114 .051	.0065	.164	Max. wear on camshaft journals .003" (.076 mm) and .0035 (.088 mm) in cylinder block.
2nd Journal Dia.	1.71575	43.580	.0045 .0025	.114 .051	.0065	.164	
3rd. " "	1.71525	43.567					
Rear " "							
Bore in Block	1.71975 1.71825	43.683 43.645					
Locating Groove	.1885 .1865	4.788 4.737	.0065 .003	.165 .076			This clearance determines camshaft end float.
Locating Plate	.1835 .1820	4.661 4.623					
Tappets & Valves.							
Tappet Bore in Block	.9380 .9373	23.825 23.807	.0013 .0002	.033 .005			
Tappet Dia.	.9371 .9367	23.802 23.792					
Valve Tip Clearance							
Inlet			.010	.254			
Exhaust			.012	.305			
Valve Guide Bore Dia.	.313 .312	7.950 7.925					
Inlet Valve Stem Dia.	.311 .310	7.899 7.874	.001 .003	.025 .076			
Exhaust Valve Stem Dia.	.309 .308	7.849 7.823	.003 .005	.076 .127			
Valve Head Diameter :	1.176	29.570					
Inlet	1.172	29.769					
Exhaust	1.051 1.047	26.695 26.594					
Guide projection above spring seat.	9/16"	14.3					

Valve seating angle on valve head 45°. Valve seat angle in cylinder head 44½°.

Valve Springs.

Free length 1.716" (43.586 mm). Fitted load 38 lbs ± 2 lb. (17.237 kg ± .907 kg).
Fitted length 1.25 (31.75 mm). Full lift load 60 lb. (27 kg) approx.

Flywheel.

Spigot dia. (for Starter Gear Ring)	13.406 13.403	340.512 340.436				
Starter Gear Ring Inside Dia.	13.380 13.375	339.852 339.725	.031 .023	.787 .584		

Flywheels balanced individually. Held to crankshaft by 4 set screws locked in pairs. Single dowel. Locating holes in flywheel 90° apart, in crankshaft 180° apart.

Run-out of clutch contact face at outer dia. should not exceed .003" (.076 mm),
Clearance between starter pinion and ring gear, Engine Serial No. 51E—S67028E, .156" (3.962 mm).
Engine Serial No. S67029E onwards .114" (2.896 mm).
Face-up starter mounting flange or fit shims to suit.

B12.

Carburettor.

Zenith Type 24T—2 (Min./Max. Adj. Jet) Choke Tube : 17. Main Jet : 105. Adj. Needle : 1.25 drilled. S.R. Jet : 60.
Progression : 120. Needle Seating : 1.5 mm. Petrol level at 4' 6" Head : 15 mm. Inter-con : 1mm drilled. Air Jet : 2.0.
Petrol Inlet Boss and adjusting needle head Stamped V.O.

Governor.

Governor lever spring: Free length: inside hooks 3.8" (96.5 mm). End Play .005" (.127 mm) Rate: 18 lbs./in \pm 5%. No of coils: 26.
.010" (.254 mm)
Load at 1" (25.4 mm) deflection: 25 lbs. (11.34 kg) \pm 1 lb. (.454 kg.) Initial wound-in load: 7 lbs. (3.175 kg).
Control Rod: Free length: inside hooks 2.687" (68.25 mm). Rate: 64 lbs./in \pm 5%. No of coils: 11 $\frac{1}{2}$.
Compensating Spring: Load at $\frac{1}{4}$ " (12.7 mm) deflection: 38 lbs. (17.237 kg) \pm 1 $\frac{1}{2}$ lbs. (.681 kg). Initial wound-in load: 6 lbs.
(2.722 kg).

DIESEL ENGINE

(Manufactured by the Standard Motor Co.)

ENGINE—3 $\frac{1}{4}$ " (80.96 mm) bore × 4" (101.6 mm) stroke, 4 cylinders, fitted to Tractors Type TE-F20.

Displacement 127.68 cu. ins. (2092 cc.)

Compression Ratio 17 : 1

Firing Order 1, 3, 4, 2.

Maximum Belt Horse Power—26 at 2,000 r.p.m.

<p>Tightening Torques :—</p> <p>Cylinder Head Nuts 75 to 80 lb. ft. (10.4—11.1 kg.m)</p> <p>Big End Nuts 65 to 70 lb. ft. (9—9.7 kg.m)</p> <p>Oil Pump Attachment 16 to 18 lb. ft. (2.2—2.5 kg.m)</p> <p>Flywheel Set Screws 90 to 100 lb. ft. (12.4—13.8 kg.m)</p>	<p>Main Bearing Socket Screws 25 to 30 lb. ft. (3.5—4.1 kg.m)</p> <p>Centre Bearing Housing to Block 39 to 42 lb. ft. (5.4—5.8 kg.m)</p> <p>Clutch Fixing Screws 26 to 28 lb. ft. (3.6—3.9 kg.m)</p> <p>Injector Attachment 12 to 14 lb. ft. (1.6—1.9 kg.m)</p>
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Component Details	Dimensions New		Clearance New		Remarks
	ins.	mms.	ins.	mms.	
Main Bearing Housings :					
Front					
Housing Spigot Ext. Dia.	5.0615 5.0605	128.562 128.537			For checking external dia. of all Housings—break housing and assemble on a mandrell 2.9180"/2.9183" (74.117/74.125 mm.) dia. without bearings. Tighten Socket Screws 29—31 lb. ft. (4—4.3 kg.m).
Bore in Cylinder Block	5.0635 5.0620	128.613 128.575	.0030 .0005	.076 .013	
Centre					
Housing Ext. Dia.	6.8115 6.8105	173.012 172.987			.0035 .0005 .089 .013
Bore in Cylinder Block	6.8140 6.8120	173.076 173.025			
Rear					
Housing Spigot Ext. Dia.	6.8735 6.8725	174.587 174.562			.004 .001 .102 .025
Bore in Cylinder Block	6.8765 6.8745	174.663 174.613			
Main Bearings.					
Housing Bores, Front, Centre and Rear.	2.9165 2.9170	74.079 74.092			For checking bore dia. assemble both halves with ring dowels fitted and tighten screws to 29—31 lb. ft. (4—4.3 kg.m).
Radial thickness of Bearings, Front, Centre and Rear	.08250 .08225	2.096 2.089			
Bearing Bore Dia. Front, Centre and Rear	2.7540 2.7530	69.952 69.926			Front and rear Main Bearing Liners are identical but centre is .100" (2.54 mm.) wider. With Bearings fitted into Housings tighten to specified torque setting. Desired clearance when assembled.
			.0040 .0025	.102 .064	
Crankshaft.					
Journal Dia.	2.7505 2.7500	69.863 69.850			Similar tolerances for reground Crankshaft to .010", .020", .030", .040" (.254, .508, .762, 1.016 mm.) undersize.
Crankshaft End Float					
Rear Journal Length	1.7507 1.7498	44.468 44.445			.0117 .0048 .297 .122
Rear Bearing Housing width	1.559 1.557	39.599 39.548			
Thrust Washer thickness	.093 .091	2.362 2.311			

Component Details	Dimensions New		Clearance New		Remarks	
	ins.	mms.	ins.	mms.		
Big End.						
Crankpin Dia.	2.3115	58.712			Similar tolerances for reground crankshaft to .010", .020", .030", .040", .060" (.254, .508, .762, 1.016, 1.524 mm.) undersize.	
	2.3110	58.699	.0035	.089		
Bearing Bore Dia.	2.3145	58.789	.0020	.051		
	2.3135	58.763				
Con. Rod Bore Dia.	2.4575	62.421				
	2.4570	62.408				
Bearing Shell thickness	.07175	1.822				
	.07150	1.816				
Connecting Rod End Float.						
Crankpin Length	1.4390	36.551				For service purposes :— Max. permissible variation in Con. Rod total weights 1½ ozs. (42.52 gms.). Metal may be removed from web on bearing cap for fine weight adjustment. Con. Rod assembly weight graded—N, P, Q, S, T, U—in 1½ oz. stages.
	1.4370	36.500	.0105	.267		
Con. Rod Width	1.4305	36.335	.0065	.165		
	1.4285	36.284				
Small End.						
Bore for Bush	1.126	28.600			Specified clearance using drawing sizes, but bore of Bush machined to suit Gudgeon Pin for the required fit.	
	1.125	28.575	-.0050	-.127		
Bush External Dia.	1.1300	28.702	-.0025	-.064		
	1.1285	28.664				
Bush Internal Dia.	1.0002	25.405				
	.9998	25.395	+.00035	+.009		
Gudgeon Pin Dia.	1.00015	25.404	-.00035	-.009		
	.99985	25.396				
Gudgeon Pin Holes in Piston.	1.00015	25.404	+.0003	+.008		
	.99985	25.396	-.0003	-.008		
Pistons, Sleeves and Inserts.						
Wellworthy Type Pistons.						
Original Piston Skirt Dia. (Round and Parallel).	3.183	80.848			Ungraded up to Engine No. SA.7739E.	
	3.182	80.823	.0070	.178		
Sleeve Bore (Parallel).	3.1890	81.001	.0050	.127	Replacement sleeves available as standard size only, (i.e. no provision made for reboring and fitting oversizes).	
	3.1880	80.975				
1st Modification—Engine No. SA.7740E — SA.9205E. Piston Skirt Dia. (Round and Parallel).	—F. Grade 3.1834	80.858			Pistons and Sleeves graded F & G.	
	3.1829	80.846				
—G. Grade	3.1838	80.868				
	3.1834	80.858	.0056	.142		
Sleeve Bore (Parallel).	—F. Grade 3.1885	80.988	.0047	.120	Replacement Pistons and Sleeves available at standard size only (i.e. no provision for oversizes).	
	3.1880	80.975				
—G. Grade	3.1890	81.001				
	3.1885	80.988	.0056	.142		
			.0047	.120		

Component Details	Dimensions New		Clearance New		Remarks
	ins.	mms.	ins.	mms.	
Wellworthy Type Pistons—continued.					
2nd Modification—Engine No. SA.9206E—SA.23082E.					
Piston Skirt Dia.—Top —F. Grade (Oval ground tapered skirt)	3.1833	80.856			Alternative to B.H.B. type Pistons.
	3.1829	80.846			
—G. Grade	3.1838	80.868			Grade to be measured at top of skirt thrust side.
	3.1834	80.858			
3rd Modification—Engine No. SA.23083E and future.					
Piston Skirt Dia.—Top —F. Grade (Oval ground tapered skirt)	3.1837	80.866			
	3.1833	80.856			
—G. Grade	3.1842	80.879			
	3.1838	80.868			
			.0052	.132	
			.0043	.110	
Sleeve Bore (Parallel) —F. Grade —G. Grade	See 1st Modification.				
Ovality—Top of Skirt	.005	.127			
	.004	.102			
—Bottom of Skirt	.001	.025			
	.000	.000			
Piston Head Dia. (Parallel)	3.158	80.213			Piston Head Dia. up to SA.15104E — 3.1625"/3.1595" (80.328/80.252 mm.)
	3.155	80.137			
			.02300	.584	
			.01925	.489	
Cylinder Insert Lower Internal Dia.	3.17800	80.721			
	3.17725	80.702			
B.H.B. Type Pistons (Introduced as an alternative at Engine No. SA.21735E).					
Original					
Piston Skirt Dia.—Top —F. Grade (Oval ground tapered skirt)	3.1838	80.868			Grade to be measured at top of Skirt Thrust side.
	3.1834	80.858			
—G. Grade	3.1843	80.882			
	3.1839	80.871			
			.0051	.129	
			.0042	.107	
Sleeve Bore (Parallel) —F. Grade —G. Grade	See under Wellworthy type Piston—1st Modification.				
1st Modification—Engine No. SA.21914E—SA.29605E.					
Piston Skirt Dia.—Top —F. Grade (Oval ground tapered Skirt).	3.1842	80.879			
	3.1838	80.868			
—G. Grade	3.1847	80.892			
	3.1843	80.882			
			.0047	.120	
			.0038	.096	
Sleeve Bore (Parallel) —F. Grade —G. Grade	As above.				
2nd Modification—Engine No. SA.29606E and future.					
Piston Skirt Dia.—Top —F. Grade (Oval ground tapered skirt).	3.1837	80.866			
	3.1833	80.856			
—G. Grade	3.1842	80.879			
	3.1838	80.868			
			.0052	.135	
			.0043	.110	
Ovality—Top of Skirt	.0122	.310			
	.0098	.249			
—Bottom of Skirt	.0024	.061			
	.0008	.020			
Piston Head Dia. (Parallel)	3.1583	80.221			
	3.1543	80.120			
			.0237	.602	
			.01895	.481	
Cylinder Insert Lower Internal Dia.	3.17800	80.721			
	3.17725	80.702			

Component Details	Dimensions New		Clearance New		Remarks
	ins.	mms.	ins.	mms.	
Ring Groove Width (Top, 2nd & 3rd).	.0832 .0822	2.113 2.088	.0055 .0035	.140 .089	Piston Rings:— Three Compression Rings and one slotted Scraper Ring all above Gudgeon Pin. Chromium plated top Compression Ring—deleted on the Wellworthy Piston at Engine No. SA8309E and re-introduced at Engine No. SA.28867E.
Compression Ring Width (Top, 2nd & 3rd)	.0787 .0777	1.999 1.974			
Ring Groove Width (4th).	.1602 .1592	4.069 4.044			
Slotted Scraper Ring Width (4th).	.1562 .1552	3.967 3.942	.005 .003	.127 .076	2nd and 3rd Compression Rings; tapered periphery rings introduced at Engine No. SA. 28867E, marked "T" denoting the taper and must be fitted with "T" upwards.
All rings—fitted gap			.014 .009	.356 .229	
Lower Block Dia. for Sleeve.	3.4073 3.4068	86.546 86.532	.0021 .0008	.053 .020	For service purposes, oversize Piston Rings, +.010" (.254 mm.) only, available for fitting in existing worn Cylinder Sleeve bores.
Sleeve External Dia.	3.4060 3.4052	86.512 86.492			
Upper Block Recess Dia. for Inserts and Sleeve Flange.	3.65725 3.65625	92.894 92.868	.00245 .00045	.062 .011	
Cylinder Insert Lower External Dia.	3.6558 3.6548	92.857 92.832			
Cylinder Insert Upper—Width of Slot. (See Remarks).	1.265 1.255	32.131 31.877			When upper insert is fitted in bore 3.6565" (92.875 mm.) dia. When in free state, gap increases by .03" (.762 mm.) nominally.
Cylinder Insert Upper—Radial Thickness.	.2335 .2325	5.931 5.906			
Gasket Cylinder Sleeve—Thickness.	.012	.305			
Sleeve Flange Thickness (Up to Engine No. SA.23082E).	.12575 .12475	3.194 3.169			Slot in bottom of Sleeve.
Sleeve Flange Thickness (Engine No. SA.23083E and future).	.21575 .21475	5.480 5.455			Without slot in bottom of Sleeve.
Depth of recess for Cylinder Inserts in Cylinder Block.	.9072 .9057	23.043 23.005			
Depth of Cylinder Inserts Lower Insert	.2390 .2380	6.071 6.045			Specified insert depths are over flats. As the mating surfaces are cones, these dimensions cannot be used directly for calculating the 'nip.' Use original Upper Insert only with Sleeve Incorporating Slot; later type only with slotless Sleeve, which has the thicker flange.
Upper Insert (Up to Engine No. SA.23082E).	.5510 .5500	13.995 13.970			
Upper Insert (Engine No. SA.23083E and future).	.461 .460	11.709 11.684			
Stand out of upper insert above block (with new Sleeve gasket).			.0045 .0010	.115 .025	
Stand out of Piston at T.D.C. above top face of Cylinder Block (not insert)			+ .010 — .003	+ .254 — .076	
Water Pump					
Housing Bore for Bearing	1.5749 1.5744	40.003 39.990	+ .00061 — .00040	+ .015 — .010	
Bearing Case External Dia.	1.57480 1.57429	40.000 39.987			
Spindle Dia.	.6264 .6256	15.905 15.893	— .0022 — .0012	— .056 — .030	Drive to impellor imparted through interference fit of impellor on spindle. Incorporated at Engine No. SA. 14655E.
Impellor Bore	.6245 .6240	15.863 15.850			

Component Details	Dimensions New		Clearance New		Remarks
	ins.	mm.	ins.	mm.	
Thermostat. Up to Engine No. SA.17122E.					
Valve begins to open	167	176 F. (75 — 80 C.)			Stamped No. X43570/11
Valve fully open	203	F. (95 C.)			
Valve Lift	.312	7.94			
Engine No. SA.17123E and future.					
Valve begins to open	154	163 F. (68 — 73 C.)			Stamped No. X43570/16
Valve fully open	185	F. (85 C.)			
Valve Lift	.312	7.94			
Oil Pump					
Approximate capacity at 50 lb/sq. in. (3.52 kg/sq. cm.) is 3.95 galls. (16.94 litres) per minute at 2000 engine r.p.m. (Oil pump runs at engine speed).					
Oil Pressure 40-60 lb/sq. in. (2.8—4.2 kg/sq. cm.).					
Bore Inner Rotor	.4987 .4993	12.667 12.683			
			.0012 .0002	.030 .005	
Pump Shaft Dia.	.4985 .4981	12.662 12.651			
			.0014 .0005	.036 .013	
Bush Internal Dia.	.4995 .4990	12.688 12.675			
Outer Rotor Outside Dia.	1.599 1.598	40.615 40.589			
			.006 .004	.152 .102	
Housing Internal Dia.	1.604 1.603	40.742 40.716			
Rotor Depth—Inner and Outer	.9995 .9985	25.388 25.362			
Pump Housing Depth from flange face to bottom of bore	.8410 .8400	21.361 21.336			
Depth of Recess in Front Main Bearing Housing	.157 .156	3.988 3.962			
Gasket Thickness (Uncompressed).	.006	.152			
End Clearance			.0035 .0005	.089 .013	End clearance allowing for .002" (.051 mm.) compression of gasket. A combined worn clearance of .005" (.127 mm.) indicates need of facing bearing housing recess and facing.
Inner Rotor Major Dia.	1.172 1.171	29.769 29.743			
Inner Rotor Minor Dia.	.731 .729	18.567 18.517			
Clearance on Rotors			.004 .001	.102 .025	Measured when major dia. of inner rotor and minor dia. of outer rotor are in line; when this clearance exceeds .010" (.254 mm.) new parts should be fitted.
Camshaft Journal Dias.	1.5595 1.5590	39.612 39.599			
			.0045 .0025	.115 .064	Provision made for vernier setting of the valve timing with camshaft chainwheel on centre.
Bore in Block and Front Bush Internal Dia.	1.5635 1.5620	39.713 39.675			
Camshaft End Float					
Front Bearing Length	1.373 1.370	34.874 34.798			
			.0075 .0020	.191 .051	
Front Journal Length	1.3775 1.3750	34.988 34.925			

Component Details	Dimensions New		Clearance New		Remarks	
	ins.	mms.	ins.	mms.		
Tappets and Valves						
Bore in Block.	.5630	14.300				
	.5623	14.282				
Tappet Stem Dia.	.5620	14.275	.0012	.030		
	.5618	14.270	.0003	.008		
Valve Tip Clearance Inlet & Exhaust (Cold).			.012	.305		
Valve Guide Bore Dia. Inlet & Exhaust.	.3130	7.950			Valve Guides not interchangeable; except between Engine No. SA.17677E and SA.29403E when the inlet guide was common.	
	.3120	7.925				
Inlet Valve Stem Dia.	.3112	7.904	.0023	.058		
	.3107	7.892	.0008	.020		
Exhaust Valve Stem Dia.	.309	7.849	.005	.127		
	.308	7.823	.003	.076		
Valve Head Dia. Inlet	1.252	31.801				
	1.248	31.699				
Exhaust	1.127	28.626				
	1.123	28.524				
Valve Lift : Inlet	.3075	7.810				
Exhaust	.342	8.687				
Valve Seating Angle on Valve Head 45°.					When seats in Cylinder Head are re-cut for servicing, utilize a 90° (incl.) cutter.	
Valve Seat Angle in New Cylinder Head 89° included.						
Valve Springs.						
Rate : Inner 56.8 lb/in. (1014.3 kg/m)						
Outer 106 lb/in. (1892.9 kg/m)						
Fitted Length : Inner 1.125" (28.575 mm.) Free Length : Inner 1.51" (38.354 mm.) approx.						
Outer 1.219" (30.963 mm.) Outer 1.600" (40.64 mm.) approx.						
Fitted Load + 2 lb./—1 lb. (.908—454 kg.) :						
Inner 22 lb. (10 kg.)		Full Lift Load :		Inlet	Exhaust	
Outer 40 lb. (18.1 kg.)		Inner 39.5 lb. (17.9 kg.)		41.5 lb. (18.8 kg.)		
		Outer 72.5 lb. (32.9 kg.)		76.5 lb. (34.7 kg.)		
Valve Timing (Crankshaft Degrees).						
Exhaust opens 45° before B.D.C.						
closes 5° after T.D.C.						
Inlet opens 5° before T.D.C.						
closes 25° after B.D.C.						
Decompression Cam Clearances.						
Cylinder Nos. 1, 2 and 4			.030	.762	Set with slot in shaft end vertical, located, on all except very early models, by fitting a dowel ($\frac{3}{16}$ " dia.) through 3rd pedestal extension.	
Cylinder No. 3			.045	1.143		
Flywheel.						
Spigot Dia. (for starter gear ring)	13.094	332.588			Flywheels balanced individually. Held to Crankshaft by 6 set screws locked in pairs. Single dowel locating flywheel on Crankshaft.	
	13.091	332.511				
Gear Ring Inside Dia.	13.068	331.927	— .031	— .787		
	13.063	331.800	— .023	— .584		
Crankshaft Spigot Dia.	4.0002	101.605				
	3.9995	101.588				
Flywheel Dia. for Spigot.	4.0007	101.778	+ .0012	+ .030		
	3.9998	101.595	— .0004	— .010		
Run-out of clutch contact face at outer dia. should not exceed .003" (.076 mm.).						

Component Details	Dimensions New		Clearance New		Remarks
	ins.	mms.	ins.	mms.	
Jockey Chainwheel Assembly					
Spigot Dia.	.749	19.025			
Wheel Carrier	.748	18.999	.0025	.064	
			.0008	.020	
Chainwheel Bush	.7505	19.063			
Internal Bore	.7498	19.045			
Front Pivot Dia.	.499	12.675			
	.498	12.649	.0025	.064	
			.0008	.020	
Bore in Timing Cover	.5005	12.713			
	.4998	12.695			
Rear Pivot Dia.	.4998	12.695			
	.4993	12.683	.0012	.030	
			.0000	.000	
Bore in Cylinder Block	.5005	12.713			
	.4998	12.695			
Injector Pump Drive.					
Pump Drive	.8748	22.220			
Shaft Minor Dia.	.8743	22.207	.0012	.030	Drive Bush for chainwheel gives vernier adjustment for pump timing in $1\frac{1}{2}$ stages up to 6'.
			.0000	.000	
Locating Bush Int. Dia.	.8755	22.238			
	.8748	22.220			
Locating Bush Ext. Dia.	1.28105	32.538			
	1.28055	32.526	.0014	.035	
			.0000	.000	
Chainwheel Bore	1.28195	32.561			
	1.28105	32.538			
Pump Drive Shaft Major Dia.	1.1233	28.532			
	1.1215	28.486	.0042	.107	
			.0015	.038	
Bearing Housing	1.1257	28.593			
Internal Dia.	1.1248	28.570			
Drive Shaft End Float.					
Length of Shaft	2.1900	55.626			
	2.1875	55.563	.0075	.191	
			.0030	.076	
Length of Housing	2.1845	55.487			
	2.1825	55.436			
Injector Pump and Injectors.					
Injection Spill Cut-off 30 (Crankshaft) before T.D.C.					Timing hole in flywheel and Cylinder Block when aligned with $\frac{1}{4}$ " (6.35 mm.) dia. tommy bar locates Nos. 1 and 4 spill cut-off timing.
Slots in Pump Mounting Flange allows for the following movement.					
Pumps Pt. Nos. 300342 and 300781—total 10° (Crankshaft).					
Pumps Pt. Nos. 300964 and 300972—total 16° (Crankshaft).					
Injector Breaking Pressure.	120	ats. (123.5 kg/sq. cm.).			
		(1764 lb/sq. in.).			
Spray Angle.	4°				
Valve Lift.	.0276	.700			
Electrical Equipment.					
Dynamo :					
Runs at 1.72 engine speed.					

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Component Details	Dimensions New		Clearance New		Remarks
	ins.	mms.	ins.	mms.	

Starter Motor.

Number of Teeth in Flywheel Gear Ring and Starter Pinion 113 and 11 respectively.

End Clearance between disengaged starter pinion and Flywheel Gear Ring .090" (2.29 mm.)—Distance from mounting flange to front face of Flywheel Gear Ring 1.090" (27.69 mm.).

Starter Pilot Switch should make electrical contact when the leading face of the starter pinion is $1\frac{3}{8}$ " (41.28 mm.) from the starter motor mounting flange face.

Batteries.

Specific Gravity 1.28 — 1.30 at 60°F. (15°C.).

Up to Tractor Serial No. 207705. 120 ampere hour capacity at 10 hour discharge rate
2 — 6 volt 17 plate units connected in series. Recharge rate 13 amps.

Tractor Serial No. 207706 and future. 115 ampere hour capacity at 10 hour discharge rate.
2 — 6 volt 19 plate units connected in series. Recharge rate 12 amps.

Clutch.

Clutch Dia. 10 254
Clutch Springs : 12 green springs each of 105 lb. (47.627 kg.) to 115 lb. (52.199 kg.).

Fill-up Data.

Fuel Tanks. Main. 7 Imp. Gallons (31.85 litres).
Auxiliary Tank. $\frac{3}{4}$ Imp. Gallon (3.4 litres).
Ki-gass Tank. $\frac{3}{4}$ pint (.43 litres).
Engine Sump. 12 pints (6.8 litres).
Air Cleaner Bowl. $\frac{3}{4}$ pint (.43 litres).
Cooling System. 15 pints (8.5 litres).

Tractor Weight Approx. :

Up to Tractor Serial No. 325000 2700 lb. (1225 kg.)
Tractor Serial No. 325001 and future. 2770 lb. (1256 kg.)