Medium Tank (M3A2 Lee)

CENTED AT DATE						
GENERAL DAT	Α	6 or 7 men				
	gunM2, W/O sandshiel					
	gunM3, W/O sandshiel		ENGINE			
Length: w/o Gun,	0 /	222 inches	Make and Model: Continental R975 EC2			
Gun Overhang: Gun forward M3 19 inches			Type: 9 cylinder, 4 cycle, radial Cooling System: Air Ignition: Magneto			
Width: over side doors 107 inches			Cooling System: Air <u>Ignitio</u> Displacement:	973 cubic inches		
Height: Over cupola 123 inches		Bore and Stroke:	5 X 5.5 inches			
Tread:		83 inches	Compression Ratio:	6.3:1		
Ground Clearance: 17 inches Fire Height: 75mm gun 69 inches			Net Horsepower (max)	340 hp at 2400 rpm		
Turret Ring Diameter: (inside) 54.5 inches			Gross Horsepower (max): 400 hp at 2400 rpm			
Weight Combat Loaded: 61,500 pounds *			Net Torque (max): 800 ft-lb at 1800 rpm			
Weight Unstowed: 57,400 pounds*		Gross Torque (max): 890 ft-lb at 1800 rpm				
Power to Weight	Ratio: Net	11.3 hp/ton	Weight:	1137 lb. dry		
	Gross	13.2 hp/ton	Fuel: 80 octane gasoline Engine Oil:	175 gallons 36 quarts		
Ground Pressure:		12.6 psi	Eligino Oli.	50 quarts		
*all weights based	l on T48 or T51 tracks		POWER TRAIN			
ARMOR			Clutch: Dry disc, 2 or 3 plate			
Type: Turret, cast homogeneous steel; Hull, rolled homogeneous			Transmission: Synchromesh, 5 speeds forward, 1 reverse			
steel; welkded asso	•		Gear Ratios: 1 st 7.56:1	4 th 1.11:1		
Hull Thickness:	Actual 20 in all and	Angled w/Vertical	2 nd 3.11	5 th 0.73:1		
Front, Upper Middle	2.0 inches 1.5 inches	30 degrees 53 degrees	3 rd 1.78 Steering: Controlled differential	Reverse 5.65:1		
Lower	2.0 inches	0 to 45 degrees	Steering: Controlled differential Bevel Gear Ratio: 3.53:1	Steer Ratio: 1.5515:1		
Sides	1.5 inches	0 to 43 degrees 0 degrees	Brakes: Mechanical, external contra			
Rear	1.5 inches	0 to 10 degrees	Final Drive: Herringbone gear	Gear ratio: 2.84:1		
Тор	0.5 inches	83 to 90 degrees	Drive Sprocket: At front of vehicle v			
Floor, Front	1.0 inches	0 degrees	Pitch Diameter: 25.038 inches			
Rear	0.5 inches	90 degrees				
Turret Thickness			RUNNING GEAR			
Front	2.0 inches	47 degrees	Suspension: Vertical volute Spring			
Sides	2.0 inches	5 degrees	12 wheels in 6 bogies (3 bogies	s/track)		
Rear	2.0 inches 0.875 inches	5 degrees	Tire Size: 20 X 9 inches	6 11 :)		
Top ARMAMENT	0.8/3 inches	90 degrees	6 track return rollers (1 at top o	e ,		
Primary: 75mm Gun M2 or M3 in Mount M1 in right front hull			Adjustable idler at rear of each track Idler Size: 22 X 9 inches			
Traverse: Manua		grees, (15 degrees L or R)	Tracks: Outside guide: T48, T49, T5	51 and T54E1		
Elevation: Manu		-20 to -9 degrees	Type: (T48) Double pin, 16.56			
Tiring Rate: (ma	ix)	20 rounds/minute		inch width, parallel bar, steel		
Loading System	:	Manual		inch width, smooth, rubber		
Stabilizer System: Elevation only			(T51) Double pin, 16.56 inch width, chevron, steel			
37mm Gun M5 or M6 in Mount M24 in turret			Pitch: 6 inches			
Traverse: Hydraulic or Manual 360 degrees			Shoes per Vehicle: 158 (79/track)			
Traverse Rate: (ma Elevation: Manual	,	20 seconds/360 degrees +60 to -7 degrees	Ground Contact Length: 147 in	iches		
Firing rate: (Max)		20 rounds a minute	ELECTRICAL SYSTEM			
Loading system: N		Stabilizer: Elevation only	Nominal Voltage: 24 volts DC			
Secondary:		Submitter: Elevation only	Main Generator: (1) 24 volts, 50 amperes, driven by power take-off from			
	M1919A4 in turret cur	oola	main engine			
(1) .30 caliber MG	6 M1919A4 coaxial w/3	7mm gun in turret	- C	Auxiliary Generator: (1) 30 volts, 50 amperes, driven by the auxiliary		
(1) .30 caliber MG M1919A4 fixed in front plate			engine	engine		
()	45 caliber SMG M1928.	A1*	Battery: (2) 12 volts in series			
(2) in early produc	ction vehicles		COLOMBIA			
AMMUNITION			COMMUNICATIONS Radio: SCR 508, in left front sponson SCR 506 in right rear sponson on			
50 rounds		12 hand grenades		son SCK 300 in right rear sponson on		
	s of 37mm		command tanks Interphone: (part of radio) 5 static	ons plus earphones for whole crew		
	ds .45 caliber		merphone. (part of factor) 5 static	one plus carphones for whole crew		
9200 roun	ds .30 caliber		*early vehicles may be equipped	d with SCR 245		
FIRE CONTROL	L AND VISION EQUI	PMENT	FIRE PROTECTION			
Primary Weapon:		Indirect	(2) 10 carbon dioxide, fixed			
	1	Gunner's Quadrant M1	(2) 4 pound carbon dioxide, porta	ble		
	elescope M21A1					
37mm gun	Periscope M2 with		BEREODM: WOT			
Vision Devices:	Telescope m19A1	Indiract	PERFORMANCE	1		
Driver	<u>Direct</u> Hatch and	Indirect Protectiscope (1)	Maximum Speed: Sustained, level			
Gunner(75)	None	Periscope M1 (1)	Short periods, le Maximum Grade:	vel 24 miles/hour 60 percent		
Loader (75)	Hatch	Protectiscope (1)	Maximum Trench:	7.5 feet		
	natch and vision slots	Protectiscope (1)	Maximum Vertical Wall:	24 inches		
Gunner (3	None	Periscope M2 (1)	Maximum Fording Depth:	40 inches		
Loader (37)	Pistol Port	Protectiscope (1)	Minimum Turning Circle: (diamete			
Total Periscopes: 1			Cruising Range: Roads	approx. 120 miles		
Total Protectiscop	es: (7) #					

Total Protectiscopes: (7) #
Total Pistol Ports: Hull (4)*, Turret (1)
*very late production (6) #Very late production (3)