

## B6 Super Lion Engines

<i>Drawing Number</i>	<i>Description</i>	<i>Engine number</i>
70664	Crank and second motion shaft gearing	18049
70666	Crank and second motion shaft bearings	18049
70670	Smokebox and door	18049
70671	Dynamo platform	18049
70672	Rochester lubricator	18049
70673	Reversing lever and guard	18049
70674	Shafts and axles	18049
70675	Clutch gear details	18049
70676	Feed pump and clack box	18049
70677	Pump eccentric road and ram	18049
70678	Pump pipes	18049
70679	Road gear covers	18049
70680	Hind road wheels	18049
70681	Hind tank	18049
70684	Penberthy injector	18049
70685	Brake gear	18049
70686	Flywheel brake	18049
70687	Front tank	18049
70688	Steerage	18049
70689	Awning	18049
70690	Engine covers	18049
70691	Crane details	18049
70692	Hind tank extension for crane	18049
70699	Flywheel	18049
70765	Water gauges	18049
70787	Oil Splashers over crankshaft	18049
70793	Awning	18050
70797	Manzel lubricator	18050
70806	Special spuds	18049-50
71329	Awning	18051
71364	Pushing bracket	18051
71372	Dynamo platform	18051
71376	Cylinder cock gear	18051
71412	Oil splashers over crank	18051
71830	Fast speed wheel on second motion shaft	20223
71855	Flywheel	20223
71861	Steerage	20223
71936	Draw gear	20223
71939	Penberthy injector and waterlifter	20223
71943	Glass water gauges	20223
71959	Engine covers	20223
71963	Main steam valve	20223
72002	Relief valve and cylinder cock	20223
72003	Cylinder cock gear and drain pipes	20223
72150	Governor and dynamo drive	20223
72171	Pickering governor	20223
72270	Regulator gear	20223

72305	Boiler	20248
S2259	Clutch gear	
S2367	Hind axle cross section	

### Sketch book drawings

<i>Drawing Number</i>	<i>Description</i>	<i>Engine number</i>
HS38-409	Connecting rod brasses	18049
HS38-410	Connecting rod lubricators	18049
HS39-23	Glass water gauge details	18049
HS39-52	Oil grooves for flywheel and gearing	18049-50
HS39-101	Oil cup for piston rod	
HS40-207	Smokebox extension	18051
HS40-224	Curtains	18051
HS40-253	Twitch bracket for dynamo	18051
HS41-116	Boiler lagging strap and ends, smokebox end	20223
HS41-212	Boiler lagging strap	20223
HS41-259	Awning, dynamo end	20223

### *Note*

No. 18049 sent out as no. 19782  
 No. 18050 sent out as no. 19783  
 No. 18051 sent out as no. 19989  
 No. 20428 never built

B6 Super Lion Drawings

<u>Drawing No.</u>	<u>Engine No.</u>	<u>Description</u>
70699	18049	Flywheel
70787	18049	Oil Splashers over Crankshaft
70664	18049	Crank and second motion shaft gearing
70666	18049	Crank and second motion shaft bearings
70670	18049	Smokebox and door
70671	18049	Dynamo platform
70672	18049	Arr. of Rochester lubricator
70673	18049	Reversing lever and guard
70674	18049	Shafts and axles
70675	18049	Clutch gear details
70676	18049	Feed pump and clack box
70677	18049	Pump eccentric road and ram
70678	18049	Arr. of pump pipes
70679	18049	Road gear covers
70680	18049	Hind road wheels
70681	18049	Hind tank
70684	18049	Arr. of Penberthy injector
70685	18049	Brake gear
70686	18049	Flywheel brake
70687	18049	Front tank
70688	18049	Steerage
70689	18049	Awning
70690	18049	Engine covers
70691	18049	Crane details
70692	18049	Hind tank extension for crane
70765	18049	Arr. of water gauges
70793	18050	Awning
70797	18050	Arr. of Manzel lubricator
70806	18049-50	Special spuds
71329	18051	Awning
71364	18051	Pushing bracket
71372	18051	Dynamo platform
71376	18051	Cylinder cock gear
71412	18051	Oil splashers over crank
71830	20223	Fast speed wheel on second motion shaft
71855	20223	Flywheel
71861	20223	Steerage
71936	20223	Draw gear
71939	20223	Arr. of Penberthy injector & water lifter
71943	20223	Arr. of glass water gauges
71959	20223	Engine covers
71963	20223	Main steam valve
72002	20223	Relief valve and cylinder cock
72003	20223	Cylinder cock gear and drain pipes
72150	20223	Arr. of governor and dynamo drive
72171	20223	Pickering governor
72270	20223	Regulator gear
72305	20428	Boiler
S2359		Arr. of clutch gear
S2367		Hind Axle Cross Section
	<u>N.B.</u>	No. 18049 sent out as No. 19782
		No. 18050 sent out as No. 19783
		No. 18051 sent out as No. 19989
		No. 20428 never built
HS38-409	18049	Connecting rod brasses
HS38-410	18049	Connecting rod lubricators
HS39-23	18049	Glass water gauge details
HS39-52	18049-50	Oil grooves for flywheel and gearing
HS39-101		Oilcup for piston rod
HS40-207	18051	Smokebox extension
HS40-224	18051	Curtains
HS40-253	18051	Twitch bracket for dynamo
HS41-116	20223	Boiler lagging strap and ends - smokebox end
HS41-212	20223	Boiler lagging strap
HS41-259	20223	Awning-dynamo end

## DRAWINGS FOR FOWLER B6 SUPER LION SHOWMANS ENGINE 19782 THE LION

Drawing No.

Boiler Assembly

Boiler General Arrangement 1919	62838
Boiler General Arrangement 1921	62838 I
Boiler General Arrgt Modifications for right hand drive	HS 38/403
Ashpan and damper gear	49136
Ashpan and damper gear modifications	HS38/417
Firehole Door	30417
Smokebox an d pertch bracket	70670
Lamp Brackets	HS 38/404
Chimney Base (Item 15)	55548
Chimney (Item 16)	45660
Steam Manifold and Internal Steampipe	60030
Details for position of full lock pads	47689
Details of Manhole Cover	45951

Transmission

Transmission layout	S2367
Hind axle spring gear	45306
Crank and 2nd Shaft Horn Bearings General Arrgt	70666
Crank and 2nd Shaft Horn Bearings detail	65018
Third Motion Shaft Gearing	60912
First and Second Shaft Gearing	70664
Shafts and Axles	70674
Fast Speed Wheel on 2nd Shaft	71830
Final Drive Gear	562350
Horn Blocks	48935
Winding Drum	47166
Winding Drum Foot Brake	HS38/415
Flywheel	70699
Flywheel modifications	HS39/52
Flywheel Brake	70686
Hind Wheel Brake	70685
Hind Wheel Brake Details of Block & Link	66553
Hind Wheel Brake Details of Ferodo Lining	HS39/69
Connecting Rods	47699
Connecting Rods Big End Bearings	HS38/409
Connecting Rods Big End Bearings Lubricator	HS38/410
Reversing Lever	70673
Eccentric Straps and Rods	50536
Valve Rods and Lifting Links	47701
Expansion Link	48389
Clutch Gear General Arrangement	S2359
Clutch Gear Detail	70675
Clutch Gear 3rd Speed Fork	HS38/418
Crank Shaft Balance weights	66476
Differential Locking Gear	63249 (missing)
Differential Locking Gear Lever Bracket	HS38/414
Slow Speed Pinion and Double Wheel	HS30/307 (missing)
Link Motion and Reversing Gear Modifications	HS38/411 (missing)
Pin for Differential Pinion	HS38/413

Cylinder AssemblyDrawing No.

Cylinder Block	55745
Cylinder Top Cover	63817 187
Pistons	45376 54
Piston Rods (Item 3)	38698
Slide Valves	51202
Slide Bars (Item 2)	47697
Slide Bar Support Bracket	47698
Slide Bar Support Bracket Modification for Right Hand	HS38/408 (missing)
Crossheads (Item 3)	48874
Displacement Lubricator	51159
Starting Valve and Button	39959
Starting Cock	39958
Safety Valve	63211
Rochester Lubricator	70672
Rochester Lubricator Modifications	HS39/51
Pickering Govenor	HS38/407
Pickering Govenor Pulley	HS39/39
Shell for Cylinder Covers	HS38/405
Cylinder Drain Cock Gear	HS38/406
Cylinder Drain Cock Details (Onward Dwg)	HS40/185

Pump and Boiler Fittings

Pump and Pipework Arrangement	70678
Pump Body	70676
Pump Eccentric Rod and Ram	70677
Pump Cover for Ram	HS39/49
Injector Arrangement	70684
Injector Clack box 1"	55868
Pump Clack Box	HS38/421
Water Gauge Arrangement	<del>70675</del> 70675
Water Gauge Modifications	HS39/23
Water Lifter Arrangement	HS38/412

Wheels and Steering Gear

Hind Wheels	70680
Hind Wheels Tyres	HS40/245
Front Wheels and Axle	67385
Front Wheels Tyres	HS38/416
Front axle Details of Drag Plates	HS39/48
Front Spring Shoe and Link	68219
Fore Carriage and Push Bracket	49462
Front Number Plate Detials	HS39/58
Steering Gear General Arrangements	70688
Steering Worm and Wheel	48161

Tender and Fore Tank

Tender	70681
Tender Additional Hand Rail	HS39/24
Tender Additional Footstep	HS39/42
Tender Lamp Bracket	HS39/60
Tender Bracket for Equalising Pipe Valve	HS38/438
Tender Crane Extension	70692
Crane Gear	70691

Tender and Fore Tank ContinuedDrawing No.

Draw Bar Gear (Supreme Dwg)  
 Fore Tank  
 Toolbox for Fore Tank  
 Fore Tank Hose Carrier and Water Lifter Hole

71936  
 70687  
 HS39/41  
 HS38/492

Miscellaneous

Oil Splash Covers over cranks  
 Special Spuds for Hind Wheels  
 Fire Irons  
 Sand Caps for Wheels and Shafts  
 Canopy  
 Canopy Curtains  
 Motion Covers  
 Gear Cover for Slow Speed wheel  
 Gear Cover for Slow Speed Modifications  
 Gear Cover for 2nd Motion Shaft  
 Gear Cover for Final Drive  
 Support for Regulator Rod  
 Double Handed Regulator Lever  
 Special Domed Nuts

70787  
 70806  
 58559  
 41662  
 70689  
 HS38/419  
 70690  
 66508  
 HS39/32  
 HS39/33  
 70679  
 HS27/106  
 HS38/420  
 HS39/17