CAMTC

Report on test in accordance with the OECD STANDARD CODE I for the Official Testing of Agricultural Tractor Performance

OECD Approval No. : 1/1808

Approval Date : 1st Feb. 1999



SHANG HAI—650 (2WD) 40 km/h Version Tractor

Manufactured by: ShangHai Tractor & Internal Combustion Engine Corporation

Test No. : 96OS205

Date of test : May to September, 1997

China Agricultural Machinery Testing Centre
40 Shi Li He Donghuan Nanlu
100021, Beijing, China

SHANG HAI—650 CAMTC OECD No. 1/1808

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SHANG HAI—650 CAMTC OECD No. 1/1808

— Tractor manufacturer's name and address:	Shanghai Tractor & Internal Combustion Engine Co. (STEC), Shanghai, China
— Location of tractor assembly:	The manufacturer
— Submitted for test by:	The manufacturer
— Selected for test by:	The manufacturer in agreement of the CAMTC
— Place of running—in:	CAMTC
— Duration of running—in:	49 hours
— Location of test:	CAMTC, Beijing, China

I SPECIFICATIONS OF TRACTOR

1.1 IDENTIFICATION

— Make:	SHANG HAI
— Model:	650
— Type:	2WD—40 km/h Version
— Number of driving wheels:	2
— Serial No :	006669
— 1st serial No :	006669

1.2 ENGINE

— Make/Model/Type:	Shanghai Tractor & Internal Combustion Engine Co., 4100A—6(—7), 4 stroke diesel, Water cooling, direct injection, spherical combustion chamber, naturally aspirated
— Serial No :	006669

1.2.1 Cylinders

— Number/disposition:	4, vertical, in line
— Bore/stroke:	100/115 mm/mm
— Capacity:	3610 cm^3
— Compression ratio:	17.5/1
— Arrangement of valves:	Overhead, in line
— Cylinder liners:	Dry type

1.2.3 Fuel system

— Fuel feed system:	Forced feed type
— Make/Model/Type of fuel filter(s):	Shanghai Filter Factory, C0708, 2 parallel units, paper cartridge, replaceable
— Capacity of fuel tank:	62 dm^3
— Make/Model/Type of injection pump:	Shanghai Pump and Injector Works, B4I16—70(right)
— Serial No:	005675
— Manufacturer's production setting of injection pump:	
• Flow rate (rated engine speed and full load):	15.48 dm^3/h
• Timing:	26°～ 30° before T. D. C.
— Make/Model/Type of injectors:	Shang hai Pump and Injector Works, long neck, single hole
— Injection pressure:	18.5+0.5 MPa

1.2.4 Governor

— Make/Model/Type:	Shanghai Pump and Injector Works, TI16—250—1200, centrifugal variable speed governor, mechanically acting, incorporated injection pump
— Governed range of engine speed:	From 600 to 2590 rev/min
— Rated engine speed:	2400 rev/min

1.2.5 Air cleaner

— Pre—cleaner	None
— Main cleaner	
• Make/Model/Type:	Shanghai Automobile Accessory Factory, 4100A, Oil bath
— Location of air intake:	Inside the bonnet, front end of the radiator
— Maintenance indicator:	None

1.2.6 Lubrication system

— Type of feed pump:	Rotor, J0812
— Type of filter(s):	Full flow, paper element, replaceable
— Number:	1

1.2.7 Cooling system

— Type of coolant:	Water
— Type of pump:	Centrifugal, belt driven

— Specification of fan or blower:	Axial flow type, belt driven
— Number of fan blades:	4
— Fan diameter:	420 mm
— Coolant capacity:	13 dm^3
— Type of temperature control:	Thermostat
— Superpressure system:	20 kPa

1.2.8 Starting system

— Make/Model/Type:	Shanghai Automobile Electrical Machinery Factory, QD1328C, D. C. solenoid engaged screw push starter motor
— Starter motor power rating:	2.0 kW
— Cold starting aid:	Electrothermal plug
— Safety device:	Main shift lever in neutral position

1.2.9 Electrical system

— Voltage:	12 V(Negative earth)
— Generator	
• Make/Model/Type:	Shanghai Automobile Electrical Machinary Factory, JFZ1317Y, Alternator, belt driven
• Power:	0.35 kW
— Battery (number of accumulators):	6—QA—165, lead acid, 1
• Rating:	165 Ah at 20 hours

1.2.10 Exhaust system

— Make/Model/Type:	Own make, SH—650, expansion type silencer
— Location:	Left—hand side of engine, vertical stack

1.3 TRANSMISSION

1.3.1 Clutch(travel and power take—off)

— Make/Model/Type:	Shanghai Clutch Works, Dry, Double acting, constant engaging
— Number of plates:	2 for travel and P. T. O
— Diameter of plates:	295 mm for travel, 280 mm for P. T. O
— Method of operation:	Operated by pedal

1.3.2 Gear box

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— Make/Model/Type: Shanghai Automobile Gear Plant, SH—650, Mechanical gear box, spur gears, planetery reduction compound

— Description:

	Forward	Reverse
Number of gears	4	1
Number of ranges/groups	2	2
Total of arrangements	8	2

1. 3. 3 Rear axle and final drives

— Make/Model/Type: Shanghai Automobile Gear Plant, Grown wheel and pinion spiral bevel gear differential, spur gear final driver fixed inside of the rear box

— Differential lock

Type: Mechanical

Method of engagement: Manual by lever

Method of disengagement: Self disengagement

1. 3. 4 Front axle and final drives

— Make/Model/Type: Shanghai Tractor chassis Works, balanced arm type, telescopic axle

— Differential lock: None

1. 3. 5 total ratios and travelling speeds

Gear No	Group or range	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed (*) at rated engine speed of 2400 rev/min km/h
1	L	191. 38	3. 133
2	L	115. 89	5. 174
3	L	79. 66	7. 527
4	L	61. 17	9. 802
5	H	47. 85	12. 532
6	H	28. 97	20. 696
7	H	19. 91	30. 108
8	H	15. 29	39. 208
R1	L	145. 04	4. 134
R2	H	36. 26	16. 536

(*) Calculated with a tyre dynamic radius index of 662. 7 mm (ISO 4251/1—1992).

1.4 POWER TAKE—OFF

1.4.1 Main power take—off

— Type:	Semi—independent
— Method of engagement:	Driven by the 2nd plate of the main clutch
— Number of shafts:	3
— Method of changing power take—off shaft ends and speeds:	Manually by exchanging p. t. o shafts

1.4.1.1 Power take—off proportional to engine speed

540 rev/min

— Location:	At rear of the tractor, in tractor's median plane
— Diameter of power take—off shaft end:	34.79 mm
— Number of splines:	6, in conformity with ISO 500/1991
— Height above ground:	633 mm
— Distance from the median plane of the tractor:	0 mm
— Distance behind rear wheel axis:	322 mm
— PTO speed at rated engine speed (2400 rev/min):	557 rev/min
— Engine speed at standard power take—off speed:	2325 rev/min
— Ratio of rotation speeds (engine speed/p. t. o speed):	4.306
— Power restriction and maximum torque:	46.2 kW 756 N. m
— Direction of rotation (viewed from behind tractor):	Clockwise

1000 rev/min

— Location:	At rear of the tractor
— Diameter of power take—off shaft end:	34.67 mm
— Number of splines:	21, in conformity with ISO 500/1991
— Height above ground:	630 mm
— Distance from the median plane of the tractor:	0 mm
— Distance behind rear wheel axis:	319 mm

— PTO speed at rated engine speed (2400 rev/min):	1013 rev/min
— Engine speed at standard power take—off speed:	2368 rev/min
— Ratio of rotation speeds (engine speed/p. t. o speed):	2. 368
— Direction of rotation (viewed from behind tractor):	Clockwise

1. 4. 2 Optional power take—off

— Location:	At rear of the tractor
— Diameter of powet take—off shaft end:	35 mm
— Number of splines:	6, in conformity with ISO 500/1991
— Height above ground:	630 mm
— Distance from the median plane of the tractor:	0 mm
— Distance behind rear wheel axis:	327 mm
— PTO speed at rated engine speed:	833 rev/min
— Engine speed at standard power take off speed:	2207 rev/min
— Ratio of rotation speeds (Engine speed/p. t. o speed):	2. 882
— Power restriction and maximum torque (Manufactures recomendation):	46. 2 kW 527 N · m
— Direction of rotation (viewed from behind tractor):	Clockwise

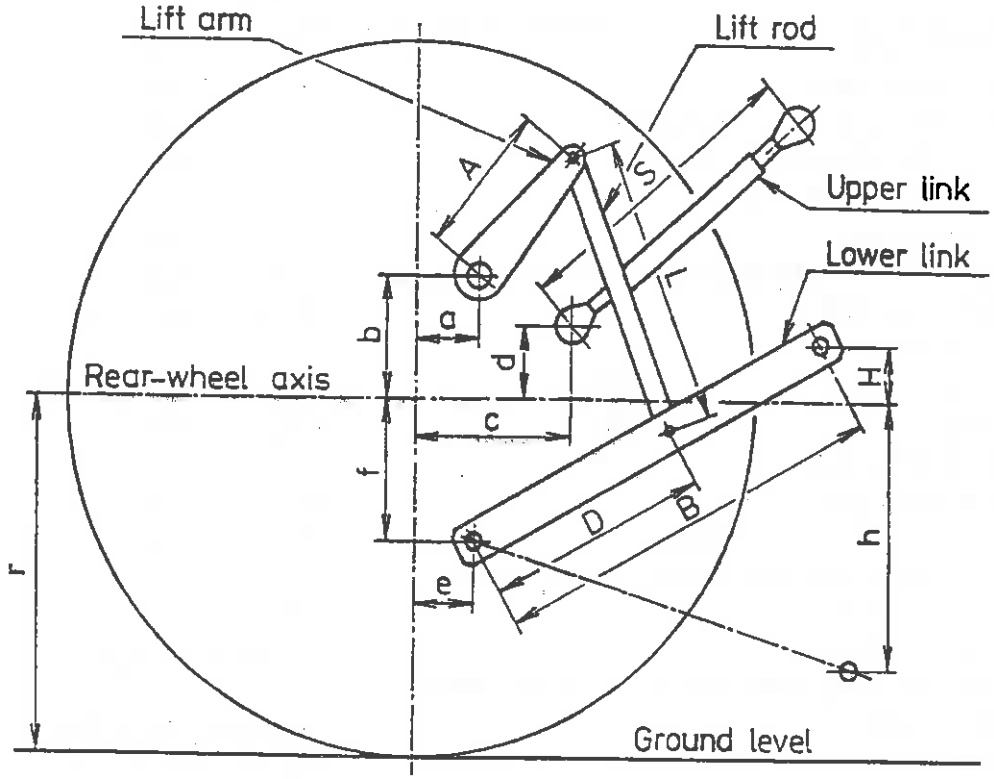
1. 5 HYDRAULIC POWER LIFT

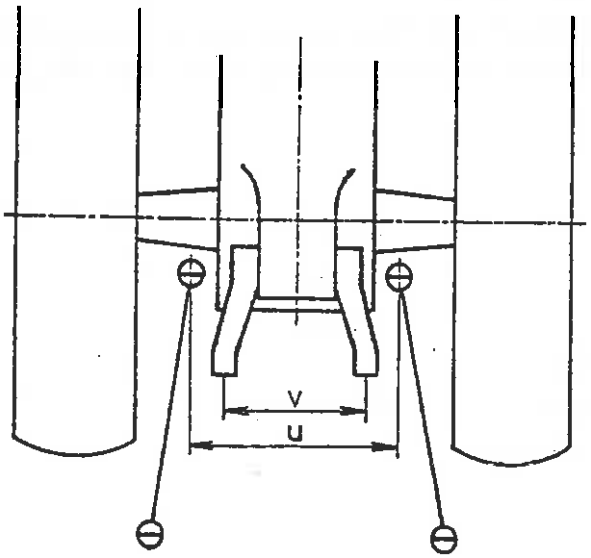
— Make/Model/Type:	Own make, SH—650 type
— Type of hydraulic system:	Partial separated units, open centre system
— Type and number of cylinders:	Single acting, 1
— Type of linkage lock for transport:	Hydraulic lock
— Relief valve pressure setting:	15. 68 MPa
— Opening pressure of cylinder safety valve:	18. 62 Mpa
— Lift pump type:	CBT E316F—R gear pump
— Transmission between pump and engine:	Gear driven from engine
— Type and number of filters:	Metal screen, 1
— Site of oil reservoir:	In the transmission housing
— Type, number and location of tapping points:	ISO standard quick coupler, 2, at rear of the tractor
— Maximum volume of oil available to external cylinders:	38. 4 dm^3/min

1. 6 THREE POINT LINKAGE

— Category: Ⅱ to ISO standard 730/ Ⅰ —1994

— Category adapter: None





1. 6. 1 Table 1. 1—Dimensions of linkage geometry (when connected to the standard frame)

		Dimension or range mm	Settings used in test mm
Length of lift arms	(A)	255	255
Length of lower links	(B)	890	890
Distance of lift arm pivot : horizontally	(a)	334	334
point from rear wheel axis : vertically	(b)	355. 5	355. 5
Horizontal distance between the 2 lower link points :	(u)	526	526
Horizontal distance between the2 lift arm end points	(v)	530	530
Length of upper link :	(S)	from 630 to 820	770
Distance of upper link pivot point from rear : horizontally	(c)	120	120
wheel axis : vertically	(d)	278	278
Distance of lower link pivot point from rear: horizontally	(e)	22	22
wheel axis: vertically	(f)	136	136
Distance of lower link pivot points to lift rod pivot points on lower links :	(D)	550	550
Length of lift rods :	(L)	from 730 to 910	870
Height of lower hitch points relative to the rear wheel axis:			
— in low position	(h)	from —14 to 626	473
— in high position	(H)	from 459 to 179	247
Height above ground of lower hitch points when locked in transport position (*)		Any height within lift range	

(*) Assuming (r)=tyre dynamic radius index of 662. 7 mm (ISO 4251/1—1992).

1. 7 TRAILER HITCH

— Type:	Fixed
— Hole diameter:	34 mm
— Height above ground:	575 mm
— Distance of hitch point from rear wheel axis, horizontally:	590 mm
— Distance of hitch point from power take—off shaft end	

- Vertically: 30 mm
- Horizontally: 268 mm

— Maximum vertical permissible load: 15.0 kN

1.8 STEERING

— Make/Model/Type: Jining Hydraulic element Works, BZZI—100, Hydrostatic steering system

— Method of operation: Steering wheel, manual operated

— Working pressure: 6.50 MPa

1.9 BRAKES

1.9.1 Service brake

— Make/Model/Type: Own make, dry type, double plates

— Method of operation: Operated by pedals, coupled or independent

— Trailer braking take—off (hydraulic of air brake): Pneumatic braking, operated by tractor pedals

1.9.2 Parking brake

— Type: Mechanically acting as service brake

— Method of operation: Pedal locked by ratchet

1.10 WHEELS

— Number
- Front: 2 steering
- Rear: 2 driving

— Wheelbase: 2050 mm

— Track width adjustment:

	Minimum mm	Maximum mm	Adjustment method
Front	1350	1650	Reversing wheels and off—set lug rims
Rear	1338	1800	Reversing wheels and off—set lug rims

1.11 PROTECTIVE STRUCTURE: None

1.12 SEAT

1.12.1 Driver's seat

—Make/Model/Type: Own make,C3M2 adjustable suspension
— Type of suspension: Spring with damper
— Type of damping: Hydraulic damper
— Range of adjustment
  • Longitudinal: 50 mm
  • Vertical: 0 mm
— Safety belt: None

1.12.2 Passenger seat

— Location: On the left and right fender
— Number of places: 2

1.13 LIGHTING

	Height above ground of centre mm	Size mm	Distance from outside side edge to median plane of tractor mm
Headlights	1180	200×175	250
Sidelights	1220	140×45	335
Rearlights	1620	140×85	730
brake lights	1440	90×70	645

Ⅱ TEST CONDITIONS

2.1 OVERALL DIMENSIONS

	lentht	Width		height at top of	
		minimun	maximun	Protective structure	exhaust silencer
	mm	mm	mm	mm	mm
Ballasted	3780	1850	2150	/	2375
Unballasted	3570	1825	2125	/	2365

2. 2 GROUND CLEARANCE(unballasted tractor): 400 mm

— Clearance—limiting part: Under the steering hydraulic pipe

2. 3 TRACTOR MASS

without frame:

	Ballasted		Unballasted	
	Without driver kg	With driver kg	Without driver kg	With driver kg
Front	1466	1477	970	981
Rear	1724	1788	1290	1354
Total	3190	3265	2260	2335

2. 4 BALLAST

	Weights		Water
	Number	Total mass kg	kg
Front	6	370	/
Rear	12	560	/

2. 5 TYRES SPECIFICATIONS

	Front	Rear
Tyres:		
• dimensions	6. 50—20	13. 6—32
• ply rating	6	8
• type	Cross ply	Cross ply
• maximum load (tyre manufacturer's)	6. 50 kN	14. 45 kN
• inflation pressure (tyre manufacturer's)	245 kPa	137 kPa
• dynamic radius index	405 mm	662. 7 mm
Chosen track width:	1450 mm	1500 mm

2. 6 OILS AND LUBRICATION

2. 6. 1 Capacity and change interval

	Capacity dm^3	Oil change h	Filter change h
Engine	10	125	125
Gear box	35	1000	—
Rear axle	Common with gear box		—
Final drive (rear)	Common with gear box		—
Hydraulic system	Common with gear box		—
steering	2. 5	1000	—

2. 6. 2 Specifications (SAE, API, Mil. L, ISO)

	Recommended	Used during test
Engine oil • Type: • Viscosity: • Classification:	 SAE 10 W/30 11. 4 cst at 100℃ API CC	 CA—30 10 cst at 100℃ GB5323—85
Transmission oils • Type: • Viscosity: • Classification:	 SAE 80 W/90 9. 3 cst at 100℃ API GL—4	 80 W/90 15—19 cst at 100 ℃ SH0350—92(China standard)
Hydraulic fluid • Type: • Viscosity: • Classification:	 Same as trans. oil	 Same as trans. oil
Steering oil • Type: • Viscosity: • Classification:	 Same as trans. oil	 N 100D 90—100 cst at 40 ℃ Q/SH007. 1. 23—87

2. 6. 3 Grease

• Number of lubrication points: 36

2. 7 FUEL

— Type: Standard diesel fuel in conformity with national standard GB10327—89

— Density at 15℃: 0. 835 g/cm^3

Ⅲ COMPULSORY TESTS RESULTS

3. 1 MAIN POWER TAKE—OFF

— Date and location of tests: 14th May, 1997, CAMTC

— Type of dynamometer: SCHENCK eddy—current brake W400

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Power	Speed		Fuel consumption			Specific energy
	Engine	P. T. O.	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1. 1 MAXIMUM POWER — TWO — HOUR TEST						
41. 82	2399	557	12. 549	15. 029	300. 1	2. 78
1. 2 POWER AT RATED ENGINE SPEED						
41. 82	2399	557	12. 549	15. 029	300. 1	2. 78
1. 3 STANDARD POWER TAKE — OFF SPEED 540±10 rev/min)						
41. 34	2325	540	12. 231	14. 648	295. 9	2. 82
1. 4 PART LOADS 1. 4. 1 the torque corresponding to maximum power at rated engine speed						
41. 82	2399	557	12. 549	15. 029	300. 1	2. 78
1. 4. 2 85% of torque obtained in 1. 4. 1						
37. 18	2511	583	11. 058	13. 243	297. 4	2. 81
1. 4. 3 75% of torque defined in 1. 4. 2						
28. 38	2554	593	8. 940	10. 707	315. 0	2. 65
1. 4. 4 50% of torque defined in 1. 4. 2						
19. 01	2571	597	7. 094	8. 496	373. 2	2. 24
1. 4. 5 25% of torque defined in 1. 4. 2						
9. 55	2584	600	5. 449	6. 526	570. 6	1. 46
1. 4. 6 unloaded						
0	2601	604	3. 899	4. 669	/	/

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Power	Speed		Fuel consumption			Specific energy
	Engine	P. T. O.	Hourly		Specific	
kW	rev/min		kg/h	l/h	g/kWh	kWh/l
1. 5 PART LOADS AT STANDARD POWER TAKE—OFF SPEED(540 rev/min) 1. 5. 1 the torque corresponding to maximum power						
41. 34	2325	540	12. 231	14. 648	295. 9	2. 82
1. 5. 2 85% of torque obtained in 1. 5. 1						
37. 07	2455	570	11. 021	13. 199	297. 3	2. 81
1. 5. 3 75% of torque defined in 1. 5. 2						
28. 11	2480	576	8. 813	10. 554	313. 5	2. 66
1. 5. 4 50% of torque defined in 1. 5. 2						
18. 83	2498	580	6. 901	8. 265	366. 5	2. 28
1. 5. 5 25% of torque defined in 1. 5. 2						
9. 51	2523	586	5. 244	6. 280	551. 4	1. 51
1. 5. 6 unloaded						
0	2541	590	3. 648	4. 369	/	/

— No load maximum engine speed: 2601 rev/min
— Torque(equivalent crankshaft)at maximum power at rated engine speed(41. 83kW): 166. 5 N • m (engine speed 2400 rev/min)
— Torque(equivalent crankshaft)at maximum power at standard power take—off speed(41. 34 kW): 169. 8 N • m (engine speed 2325 rev/min)
— Torque (equivalent crankshaft) at maximum power: 166. 5 N. m
— Maximum torque (equivalent crankshaft): 195 N. m (engine speed : 1451 rev/min)
— Mean atmospheric conditions
  • Temperature: 21℃
  • Pressure: 99. 9 kPa
  • Relative humidity: 86. 6%
— Maximum temperatures
  • Coolant: 79℃
  • Engine oil: 96℃
  • Fuel: 21℃

· Engine air intake: 21℃

3. 2 HYDRAULIC POWER AND LIFTING FORCE

— Date of tests: 16th May, 1997

3. 2. 1 Hydraulic power test

— Sustained pressure with relief valve open: 16. 2 MPa

— Pump delivery rate at minimum pressure: 39. 3 1/min

	Flow rate	Pressure	Power
	1/min	MPa	kW
Flow rate corresponding to a hydraulic pressure equivalent to 90 percent of the actual relief valve pressure setting and corresponding hydraulic power	31. 7	14. 6	7. 71
Flow rate and hydraulic pressure corresponding to maximum hydraulic power	33. 4	14. 2	7. 90

— Tapping point used for test: At rear part of the tractor

— Temperature of hydraulic fluid: 65℃

— Opening pressure of the unloading valve: None

— Closing pressure of the unloading valve: None

3. 2. 2 Power lift test

— Linkage settings for test—see Table 1. 1 and Figures 1. 1

	at the hitch point	on the frame
Height of lower hitch points above ground in down position	187 mm	137 mm
Vertical movement	693 mm	805 mm
Maximum corrected force exerted through full range	18. 4 kN	11. 1 kN
Corresponding pressure of hydraulic fluid	14. 6 MPa	14. 6 MPa
Moment about rear wheel axis	16. 8 kN. m	16. 9 kN. m
Maximum tilt angle of mast from vertical	/ degrees	8 degrees

Lifting heights relative to the horizontal plane including the lower link pivot points											
mm	−390	−340	−300	−200	−100	0	+100	+200	+300	+353	+415
Lifting forces (the values measured are corrected to correspond to a hydraulic pressure equivalent to 90% of the actual relief valve pressure setting of the hydraulic Lift system)											
at the hitch point kN	/	18.40	19.18	21.22	21.59	21.18	20.35	19.66	19.19	19.10	/
Corresponding pressure: 14.6 MPa											
at the frame kN	18.04	18.24	18.42	18.55	18.36	18.22	17.20	15.99	15.22	14.91	11.10
Corresponding pressure: 14.6 MPa											

3.3 DRAWBAR PERFORMANCE TEST

— Date of tests: Sep 15 through 20,1997

— Type of track: Concrete

		Tyre inflation pressure	
	Height of drawbar above ground	Front	Rear
Unballasted	385 mm	245 kPa	140 kPa
Ballasted	375 mm	245 kPa	137 kPa

Gear and range	Power	Drawbar pull	Speed	Engine speed	Slip of wheels	Specific fuel consumption	Specific energy	Temperature			Atmospheric conditions		
								Fuel	Coolant	Engine oil	Temperature	Relative humidity	Pressure
	kW	kN	km/h	rev/min	%	g/kWh	kWh/l	℃	℃	℃	℃	%	kPa
3. 3. 1 MAXIMUM POWER IN TESTED GEARS (unballasted tractor)													
2L	19. 78	15. 18	4. 69	2560	15	410. 2	2. 04	26	78	88	25	62	100. 1
3L	27. 36	15. 13	6. 51	2443	15	392. 8	2. 13	26	83	89	25	62	100. 1
4L	35. 25	13. 49	9. 41	2405	4	355. 8	2. 35	26	87	89	25	62	100. 1
5H	34. 19	10. 34	11. 90	2402	5	331. 9	2. 52	26	88	90	25	62	100. 1
3. 3. 2 MAXIMUM POWER IN TESTED GEARS (ballasted tractor)													
1L	14. 83	19. 20	2. 78	2503	15	412. 3	2. 03	27	67	88	26	64	100. 1
2L	24. 01	19. 34	4. 47	2440	15	404. 2	2. 07	27	80	88	26	64	100. 1
3L	33. 99	19. 00	6. 44	2416	15	369. 0	2. 26	27	84	89	26	64	100. 1
4L	35. 49	13. 69	9. 33	2405	5	351. 9	2. 37	28	88	100	27	64	100. 1
5H	35. 09	10. 50	12. 03	2400	4	343. 0	2. 43	28	88	100	27	64	100. 1
3. 3. 3. 1 FIVE HOUR TEST at 75 percent of pull at maximum power													
4L	27. 68	10. 26	9. 71	2427	2	340. 0	2. 46	28	87	94	27	65	100. 1
3. 3. 3. 2 FIVE HOUR TEST at pull corresponding to 15 percent wheelslip													
3L	33. 90	19. 00	6. 41	2420	(*)	(*)	(*)	28	89	96	27	65	100. 1

Oil consumption during ten hours duration of tests 3. 3. 1 and 3. 3. 2: 62. 0 g/h

(*) Those figures not quoted are irrelevant due to the additional ballast.

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3.4 TURNING AREA AND TURNING CIRCLE

Details of wheel equipment:

	Tyre size	Track width
front:	6.50—20	1450
rear:	13.6—32	1500

	With brakes		Without brakes	
	Right hand	Left hand	Right hand	Left hand
	m	m	m	m
Radius of turning area	4.22	3.94	4.86	4.32
Radius of turning circle	3.96	3.64	4.60	4.02

3.5 LOCATION OF CENTRE OF GRAVITY

Height above ground: 796 mm

Distance forward from the vertical plane containing the axis of the rear wheels: 861 mm

Distance from the median plane of the tractor to the left: 1.8 mm

3.6 BRAKING

— Date of tests: 16,Sep. 1997

3.6.1 Cold service braking device test

Speed before application of brakes: 39.7 km/h

Ballasted tractor	Braking device control force N	150	200	300	350	450	550
	Mean deceleration m/s^2	2.12	2.76	3.60	3.78	4.10	4.14
Unballasted tractor	Braking device control force N	150	200	300	350	450	550
	Mean deceleration m/s^2	1.92	2.60	3.45	3.67	3.92	4.01

3. 6. 2 Fade test

Speed before application of brakes: 39. 7 km/h

Ballasted tractor	Braking device control force N	150	200	300	350	450	550
	Mean deceleration m/s^2	1. 83	2. 42	3. 30	3. 53	3. 79	3. 82

Maximum deviation of tractor from its original course: 0

Abnormal vibration: None

Brakes were heated by: Driving

3. 6. 3 Parking braking device test

	Up	Down
Braking device control force N	165	196

3. 7 MEASUREMENT OF EXTERNAL NOISE LEVEL

— Date of test: 13, Nov. 1997
— Type of sound level meter: B&K 2235
— Type of track: Concrete
— Cear number: 8(H4)
— Travelling speed before acceleration: 31. 5 km/h
— Sound level: 84. 6 dB(A)

Ⅳ. REPAIRS AND ADJUSTMENTS DURING TESTS: None

Ⅴ. REMARKS: None

Test carried out by: Baiyuchun, Gengzhanbin, Zhangmenghua, Tianli, Liuqin, Chengxinghe Changxiongbo

Officer in Charge: Chenghaiyan

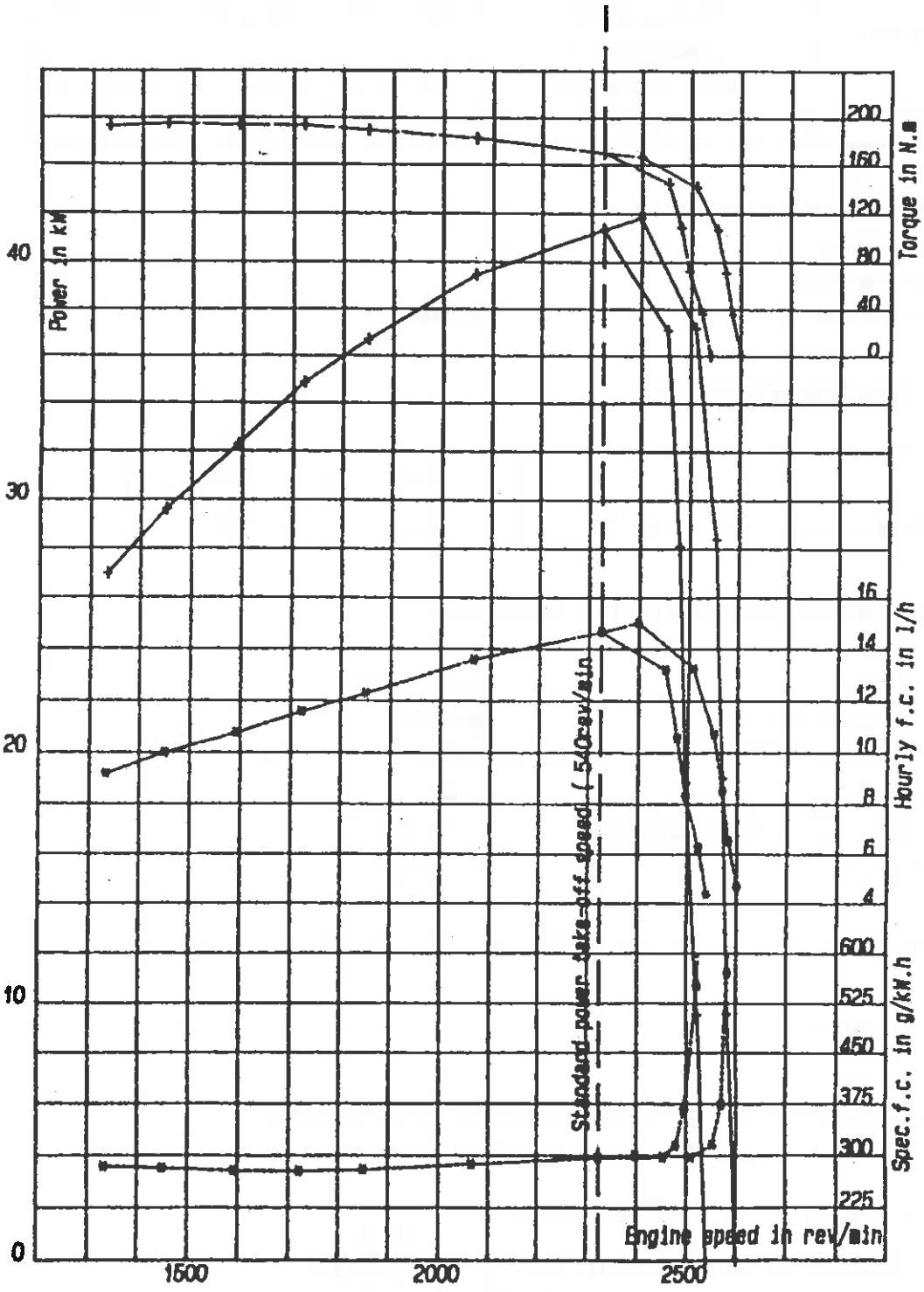
Chief of Tractor Testing Division: Lixijiang 李锦江

For the director: Wangliansheng

SHANG HAI—650 CAMTC OECD No. 1/1808

ANNEX

MAIN POWER TAKE—OFF TEST CURVES



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ANNEX

MAIN POWER TAKE—OFF TEST CURVES

