

(यह परीक्षण रिपोर्ट 31/07/2026 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 31/07/2026)



**TAFE LTD., MF 9500 2WD
(8 + 8 Speed Gear Box) TRACTOR**



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय
(कृषि, सहकारिता एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Co-operation & Farmers Welfare)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO : 9001 - 2015 Certified Institute)

TRACTOR NAGAR, BUDNI (M.P.) 466 445



T- 1565/2093/2021

TAFE LTD., MF 9500 2WD (8 + 8 Speed Gearbox)
TRACTOR – Commercial (1st Batch)

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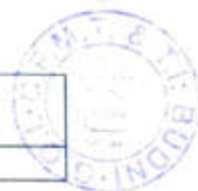
The "TAFE, 9500 2WD (8 + 8 Speed Gear Box)" tractor model had undergone "Initial Commercial Test" at this Institute vide test report No. T-1025/1549/2016 released in May, 2016. Now the applicant has submitted an application No. Nil dated: 05.07.2019 and subsequently revised application No. Nil dated: 07.07.2020 for batch testing of "TAFE, 9500 2WD (8 + 8 Speed Gear Box)" tractor.

All necessary tests as per Table-1 of clause 6.0 of IS: 5994 - 1998 (Reaffirmed in January, 2019) were carried out and test report released as under.

Manufacturer	: M/s Tractors and Farm Equipment Limited, Old 35, New 77, Mahatma Gandhi Road, Post Box No. 3302 Nungambakkam, Chennai – 600 034
Location of manufacturing plant	: i) M/s Tractors and Farm Equipment Limited Kalladipatti Plant, 10/205, Kalladipatti (PO), Pincode – 624 201, Dindigul Dist., Tamil Nadu ii) M/s Tractors and Farm Equipment Limited, Doddaballapur Plant Plot No. – 1, KIADB Industrial Estate, Doddaballapur, Bangalore- 561 203
Test requested by (applicant)	: The manufacturer
Selected for test by	: The manufacturer
Place of running-in	: At manufacturer's work place
Duration of said running-in, (h):	
- Engine	: 12
- Transmission	: 16
Method of Selection	: Due to Covid-19 Pandemic, it was not possible to conduct the random selection. Nor was possible for applicant to facilitate the random selection. As a last resort applicant requested to allow the direct submission of Test Sample, which was allowed.

1. SPECIFICATIONS

1.1 Tractor:	
Make	: TAFE LTD.
Model	: MF 9500 2WD
Brand Name	: None
Variants, if any	: None
Type	: Four wheeled, Rear wheel driven, Unit Construction, General purpose, Agricultural tractor.
Month & Year of manufacture	: 10 / 20
Chassis number	: MEA99E83KL1286951
Country of origin	: India
1.2 Engine:	
Make	: Simpson & Co. Ltd.
Model	: TIIIA TSJ 327-F19
Type	: Four stroke, Liquid cooled, Turbocharged, Direct injection, Diesel engine.
Serial number	: TSJ327A91115



14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

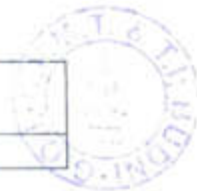
14.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluation (not-mandatory) parameter applicable for qualifying Minimum Performance Criteria as per Clause-4 (Table-1) of IS: 12207-2019 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:-

S. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant (D) / Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
14.1.1	PTO Performance :					
a)	Max. power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power or engine power >26 kW, $\pm 10\%$ for PTO power or Engine power ≤ 26 kW.	40.0 (D)	39.6	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	40.0 (D)	38.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% Max.	265 (D)	261	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	230.0 (D)	241.4	Yes
e)	Back-up torque, percent	Evaluative	12 percent, min.	12 % (D) 12 % (R)	44.8	Yes
f)	Maximum operating temperature(^o C)					
	1) Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	132 (D)	124	Yes
	2) Coolant (liquid)	Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	110 (D)	109	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.66 (Maximum) (R)	0.38	Yes
h)	Smoke level, (m ⁻¹)	Evaluative	Maximum light absorption coefficient of 3.25 per metre or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR)	3.25 (Maximum) (R)	0.19	Yes



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1	2	3	4	5	6	7	
14.1.2	Drawbar performance:						
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	22.0 (D)	21.52	Yes	
				18.54 (Minimum) (R)			
b)	Maximum drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without / standard ballast	18.0 (D)	18.50	Yes	
				16.62 (Minimum) (R)			
c)	Maximum drawbar power without ballast, or with standard ballast as the case may be, kW	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having 1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	33.0 (D)	33.5	Yes	
				31.7 Minimum (R)			
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	132 (D)	106	Yes	
14.1.3	Power lift and hydraulic pump performance :						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	±10 percent	16.20 (D)	15.83	Yes
	2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW. and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft	12.00 (D)	13.93	Yes
				9.32 Minimum (R)			
b)	Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 minute, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D)	205	No	
				50 Maximum (R)			
14.1.4	Brake performance at 25 kmph:						
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with ballast, (m):						
	1)	Cold brake	Evaluative	10	10 (R)	8.30	Yes
	2)	Hot brake	Evaluative	10	10 (R)	8.36	Yes



1	2	3	4	5	6	7
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 (R)	197 to 296	Yes
c)	Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400 N at hand lever, N	Evaluative	Yes / No	Yes	535	Yes
14.1.5 Noise measurement :						
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	83	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	95	Yes
14.1.6 Amplitude of mechanical vibrations at :						
	1) Left foot rest	Non Evaluative	100 microns (max)	100(R)	134	No
	2) Right foot rest		-do-		137	No
	3) Seat (with driver seated)		-do-		38	Yes
	4) Steering wheel		do-		69	Yes
14.1.7 Air cleaner oil pull over:						
	Maximum air cleaner oil pull over	Evaluative	0.25 % (max.)	Dry type air cleaner is provided	Not applicable	
14.1.8 Haulage requirements:						
a) Gross mass of the trailers, (tones):						
	1) Two wheel	Non	--	5.0 (D)	5.0	Yes
	2) Four wheel	Evaluative		6.0 (D)	6.0	Yes
b) Distance travelled / litre of fuel consumption, (km/l):						
	1) Two wheel	Non Evaluative	--	5.35 to 5.75 (D)	4.92 to 5.11	No
	2) Four wheel		5.20 to 5.60 (D)	4.35 to 4.78	No	
c) Fuel consumption (ml/km/tonne):						
	1) Two wheel	Non	--	36 to 45 (D)	39.2 to 40.6	Yes
	2) Four wheel	Evaluative		35 to 40 (D)	34.9 to 38.3	Yes
14.1.9 Wetland cultivation :						
	Sealing for the following assemblies:	Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and / or mud (R)	The major breakdowns were not observed in the field test during initial commercial testing of this tractor model having test report No. T-1025/1549/2016 released in May, 2016. So, as per the provision as laid down in clause 7.2 of IS: 12207-2019, the field test during the batch testing of this tractor model was not conducted	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				



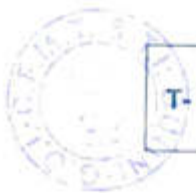
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1	2	3	4	5	6	7	
14.1.10	Safety features :						
a)	Guards against moving and hot parts	Evaluative	Belt drives, pullies, silencer, hydraulics pipes(as per IS-12239 Part 2)	Meet the requirements	Yes		
b)	Lighting arrangement	Evaluative	As per CMVR	Meet the requirements	Yes		
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meet the requirements	No		
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meet the requirements	Yes		
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Meet the requirements	Yes		
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)	Meet the requirements	Yes		
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)	Not provided	Not applicable		
h)	1) Maximum travelling speed at rated engine speed in reverse gears. kmph	Evaluative	Should not exceed 20 kmph	36.87 kmph (Meet the requirements)	Yes		
	2) Audible warning signal on tractor.	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated.	Audible warning signal is activated when reverse gear speed reaches to 20 kmph in HR3 & HR4 gears	Yes		
14.1.11	Labelling of tractors (Provision of labelling plate):						
	1) Make	Evaluative	Should conform to the requirements of CMVR along with maximum declared value of PTO power in kW and for month & year of manufacture in numerical <table border="1" style="margin: 0 auto;"><tr><td>MM</td><td>YY</td></tr></table> Digit 01-12 in box No.1 for MM will represent the month and next two digit in the box No.2 for YY will represent the year of manufacturing	MM	YY	TAFE	Yes
MM	YY						
	2) Model	Evaluative		MF 9500 2WD	Yes		
	3) Month & Year of manufacture	Evaluative		10 / 20	Yes		
	4) Engine number	Evaluative		TSJ327A91115	Yes		
	5) Chassis number	Evaluative		MEA99E83KL 1286951	Yes		
	6) Declaration of PTO power, kW	Evaluative	40.0	Yes			

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1	2	3	4	5	6	7
14.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	95.202 (D)	95.009 to 95.034	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.25 (D) (With new rings)	0.126 to 0.144	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		Piston is discarded when ring groove clearance exceeds 0.25 mm with new rings	94.890 to 94.893	Yes
(d)	Ring end gap, (mm):					
	- Top comp. ring.	Evaluative	-do-	1.50 (D)	0.45 to 0.50	Yes
	- 2 nd comp. ring.		-do-	1.50 (D)	0.105 to 0.110	Yes
	- Oil ring.		-do-	1.50 (D)	0.45 to 0.50	Yes
(e)	Ring groove clearance, (mm):					
	- Top comp. ring.	Evaluative	-do-	--Tapered rings--		Not applicable
	- 2 nd comp. ring.		-do-	0.20 (D)	0.065 to 0.080	Yes
	- Oil ring.		-do-	0.25 (D)	0.065 to 0.072	Yes
(f)	Diametrical clearance of main bearings, (mm):	Evaluative	-do-	0.75 (D)	0.119 to 0.147	Yes
(g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.75 (D)	0.082 to 0.117	Yes
	- Axial	Evaluative	-do-	0.75 (D)	0.25 to 0.30	Yes
(h)	Crankshaft end float, (mm)	Evaluative	-do-	0.75 (D)	0.25	Yes
(j)	Clearance between king pin and bush,(mm)	Non Evaluative	-do-	0.35 (D)	0.07 to 0.11	Yes
(k)	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	1.25 (D)	0.11 to 0.16	Yes
14.1.13	Literature (Submission to test agency)					
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes
(b)	Parts Catalogue	Evaluative	Provided / Not Provided	Provided	Provided	Yes
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes



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1	2	3	4	5	6	7
14.1.14	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Not Provided (D) Provided (R) (Optional as per CMVR)	Not Fitted	Not Applicable
14.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
14.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Not Fitted	Not Applicable

14.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
S. No.	Category of Breakdown	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirement (Yes/No.)
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major breakdowns	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor breakdowns	Evaluative	There are not more than 3 minor defects during the test and the frequency of each is not be more than two	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four that is, (1 major + 3 minor) or 4 minor breakdowns	None	Yes

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14.3 Salient Observations:

14.3.1 Laboratory tests:

14.3.1.1 PTO Performance Test:

- i) The maximum PTO power is recorded as **39.6 kW** against the declaration of **40.0 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The rated PTO power is recorded as **38.4 kW** against the declaration of **40.0 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The specific fuel consumption corresponding to maximum power is recorded as **261 g/kWh** against the declaration of **265 g/kWh**, which is within the tolerance limit of IS: 12207-2019.
- iv) The maximum equivalent crankshaft torque is recorded as **241.4 N-m** against the declaration of **230 N-m**, which is within the permissible limit as specified in IS: 12207-2019.
- v) The backup torque is recorded as **44.8 %** and meets the evaluative requirement of IS: 12207-2019.

14.3.1.2 Drawbar Performance Test:

- (i) During ten hours drawbar performance test, creeping of LHS & RHS rear tyres over the rims are recorded as **50 & 50 mm**. This should be looked into for necessary corrective action.
- (ii) **During drawbar performance test rear wheel tyre tube of RHS was got punctured due to excessive creeping of 240 mm, thereafter on the request of applicant tube of same specifications was changed with new one. This should be looked into for necessary corrective action.**

14.3.1.3 Hydraulic performance test:

- i) The moment about rear axle with standard frame is computed as **21.24 kN-m**. Whereas, the moment about front axle was computed as **18.99 kN-m**. The moment about rear axle is on higher side as compared to the moment about front axle. It is therefore, recommended that the lifting capacity of the hydraulic system may be reduced suitably to avoid the front lifting of the tractor.
- ii) Maximum cumulative drop in height of hydraulic lift during lift maintenance load test for a total duration of 30 minute has been recorded as **205 mm** against the maximum requirement of **50 mm**. This indicates internal leakage of hydraulic fluid. This should be looked into for necessary corrective action at production level.

14.3.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies / components marked as (*) in Chapter – 8 of this test report is on higher side. This calls for dampening down of vibrations especially on left and right foot rest to improve the operational comfort and service life of components.

14.3.1.5 Operator's seat:

- i) Vertical distance from Seat Index Point to centre of clutch and brake pedal has been recorded as **335** and **335 mm** respectively against the requirement of **380 to 620 mm**. Hence these dimensions does not meet the requirement of IS:12343-1998, (Re-affirmed in January, 2019). This should be looked into for necessary action.



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- ii) Longitudinal distance from Seat Index Point to centre of differential pedal has been recorded as **300 mm** against the requirement of **355 to 770 mm**. Hence this dimension does not meet the requirement of IS:12343-1998, (Re-affirmed in January, 2019). This should be looked into for necessary action..

14.3.1.6 Haulage test:

Distance travelled per litre of fuel consumption with two wheel and four wheel are recorded **4.92 to 5.11** and **4.35 to 4.78 km/l** against the declaration of **5.35 to 5.75** and **5.20 to 5.60 km/l** respectively & which does not meet the requirement with regards to tolerance limit. This should be looked into for necessary corrective action.

14.3.1.7 Components / Assembly Inspection:

During components / assembly inspection preloading adjusting shim (Part No. 0892171M01) of differential cage RHS taper roller bearing was found in damaged condition. This should be looked into for necessary corrective action.

14.4 Maintenance / Service Problems:

No noticeable maintenance / service problem was observed during the test.

14.5 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

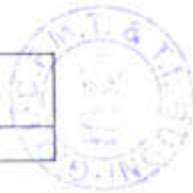
- i) Working clearance around the position and draft control shall be provided as per IS:12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- ii) Vertical distance from Seat Index Point to centre of clutch & brake pedal has been recorded as **335** and **335 mm** respectively. These shall be provided as per IS:12343-1998, (Re-affirmed in January, 2019).
- iii) Longitudinal distance from Seat Index Point to centre of differential pedal has been recorded as **300 mm** against the requirement of **355 to 770 mm**. This shall be provided as per IS:12343-1998, (Re-affirmed in January, 2019).
- iv) There shall be provision of spark arrester in the exhaust system of tractor's engine as per IS:12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- v) There shall be provision of master shield around the PTO shaft as per IS:4931-1995 (Reaffirmed in January, 2019).

14.6 Adequacy of Literature:

14.6.1 Following literature of following tractor models were supplied with the test sample for reference during the test.

- i) Operator's manual of MF 9500 2WD & MF 9500 4WD tractor models
- ii) Spare part's catalogue of MF 9500 2WD & MF 9500 4WD tractor models
- iii) Service manual of (Part-1 & Part-2) MF 9500 2WD & MF 9500 4WD tractor models

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- 14.6.2 Literatures submitted by applicant are found sufficient, **except the following:**
- Tractor is fitted with dry type air cleaner whereas in operator's manual information oil bath type air cleaner is provided. This should be looked into for necessary corrective action.
 - Service schedule and routine maintenance chart is not provided in Service manual.
 - Various lubricants' grade recommended for different assembly and subassembly of tractor is not available in Operator's & Service manual.
 - Brand name of coolant recommended for cooling system of tractor is not available in Operator's and Service manual.
- 14.6.3 The literature should be brought out in national as well as other regional languages of India for guidance of users.

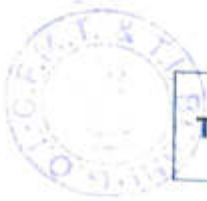
TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	
Y. K. RAO SENIOR AGRICULTURAL ENGINEER	
P. K. PANDEY DIRECTOR	

Draft Test Report is compiled by: **Rajneesh Patel**, Agricultural Engineer.

15. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
15.1	14.3.1.2 [(i) & (ii)], 14.3.1.3 [(i) & (ii)], 14.3.1.4, 14.3.1.5 [(i) & (ii)], 14.3.1.6, 14.3.1.7, 14.5 & 14.6.2	We will study and take appropriate corrective action.



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ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS	HOURS
1.	Running-in	28.00
2.	PTO Performance test	13.71
3.	Power lift and hydraulic pump performance test	3.49
4.	Drawbar performance test	17.75
5.	Brake test	1.75
6.	Noise measurement	1.25
7.	Mechanical vibration test	1.16
8.	Nominal speed test	1.63
B.	HAULAGE TEST	4.86
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.50
TOTAL:		75.10