प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1686/2217/2022 INITIAL COMMERCIAL TEST REPORT माह/Month : November, 2022

# Application Reference No. 28/2022-23/36

(यह परीक्षण रिपोर्ट 30/11/2027 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/11/2027)



Make of Agricultural Tractor: Mahindra

Model : YUVO TECH+ 575 DI

Manufactured by : Mahindra & Mahindra Limited,

(Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur

P.O., District Chengalpattu - 603004.



# भारत सरकार

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

# GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS' WELFARE

(DEPARTMENT OF AGRICULTURE & FARMERS' WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

# **CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**

TRACTOR NAGAR, BUDNI (M.P.) 466 445 (An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

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### **IMPORTANT INFORMATION**

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15<sup>th</sup> August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report:-

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: November Test Report No.: T-1686/2217/2022 Year: 2022



# GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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T-1686/2217/2022 MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST
THIS TEST REPORT IS VALID UPTO: 30/11/2027

[C] Tractor manufacturer's name and address : M/s. Mahindra & Mahindra Limited (Farm Equipment Sector)

Mahindra Research Valley Mahindra 2

Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District Chengalpattu – 603004.

[D] Location of tractor assembly

) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector), Hingna Road, Hingna MIDC, Nagpur– 440016

(ii) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector) Agri Business Development Center, Khatima Panipat Highway, Udham Singh Nagar, Vil. Lalpur, Tehsil-Kichha, Rudrapur – 263 153

(iii) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector), Agri Development Center, Vil-Mehla Tehsil - Dudu Jaipur- Ajmer Road, Jaipur- 303 007

 (iv) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector), Near Bidar "T" Junction, Mahindra Nagar, Zaheerabad- 502 220 Medak District, Andhra Pradesh

(v) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector), Akurli Road, Kandivli (E), MUMBAI – 400 101

[C] Submitted for test by (Applicant)

[C] Selected for test by : The Ministry vide

The Ministry vide OM No. 13-17/2021 - M&T (I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test

sample to the Institute for test.

The Manufacturer

[D] Place of running-in : At manufacturer's works

[D] Duration of running-in:

-Engine : 30 -Transmission : 36

[C] Location of test : Government of India,

Central Farm Machinery Training and Testing

Institute, P.O. - Tractor Nagar, BUDNI – 466445 (M.P.), INDIA

#### 1. SPECIFICATIONS OF TRACTOR

:

1.1 Identification:1.1.1 Denomination

[C] Make of tractor : Mahindra

[C] Model (trade name) : YUVO TECH+ 575 DI

[C] Type : Rear Wheel Drive, Standard Agricultural

Tractor.

[C] Month & year of manufacture : 06/22 [D] Country of origin : India

#### MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST

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1.1.2 Numbers:

[D] 1<sup>st</sup> Serial No. or prototype : MBNPFALBEMNG00001 [C] Serial No. : MBNPFALBENNC01028

1.2 Engine:

[D] Manufacturer's address : Mahindra & Mahindra Limited

(Farm Equipment Sector),

(i) Akurli Road, Kandivali (E), Mumbai -

400101

(ii) MIDC, Hingna Road, Nagpur – 440028

(iii) Khatima Panipat Highway, Rudrapur,

Udhamsinghnagar, 263153

(iv) Jaipur Ajmer Road, Jaipur – 303007

(v) Near Bidar "t" junction, Mahindra Nagar,

Zaheerabad – 502220

(vi) Mahindra Research Valley, Mahindra World City, Plot No.41/1, Anjur P.O.,

Kanchipuram District, Chengalpattu -

603004

[C] Make : Mahindra

[C] Model : MTDHI30NA047B3A

[C] Type : Four stroke, naturally aspirated, liquid cooled,

direct injection, diesel engine.

[C] Serial No. : NNC2GJE0046

1.2.1 Cylinders:

[C] Number/disposition : Four, vertical, in-line

[D] Bore / Stroke, (mm)
 [D] Capacity, cm³
 [D] Compression ratio
 [D] Arrangement of valves
 [D] Stroke, (mm)
 [D] 2979
 [D] 20.0 (±1): 1
 [D] Overhead, i

[D] Arrangement of valves : Overhead, inline[D] Cylinder liners : Wet, replaceable

[D] Type of combustion chamber : Re-entrant cavity on piston crown

1.2.2 Supercharging : Not Available

1.2.3 Fuel system:

[C] Fuel feed system : Gravity and force feed

Filter(s):

[C] Make : Bosch

[C] Model : F 002 H25 037

[C] Type : Spin-on paper element

[C] Number(s) : One [D] Capacity of fuel tank, (I) : 53.4

Injection pump:

[C] Make : Bosch

[C] Model : F 002 A2Z A66, PES4A85D320RS2000

[C]Type: Inline, plunger[C]Serial Number: 23937104

Manufacturer's production setting of injection pump:

[C] Flow rate (rated engine speed & full :  $7.8 \pm 0.40$ 

load), (kg/h)

[D] Timing :  $6.5 \pm 1$  degree before TDC

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#### 4. OPTIONAL TEST RESULTS

As the applicant has not applied for any optional tests, therefore no optional tests was conducted.

#### 5. REPAIRS

--None--

## 6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters 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:

SI. No.	Cha	aracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require-m ents (Yes/No)
1		2	3	4	5	6	7
		DATORY TES d 28 <sup>th</sup> of July,		Ministry's Office Memorandun	n No. 13-17	/2021-M8	kT (I&P)
6.1.1	PTO	Performance:					
a)	undei (kW) ambie	(Natural ent condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	32.1 (D)	32.3	Yes
b)		er at rated e speed,	Non Evaluative	-do-	32.1 (D)	31.9	Yes
c)	consu	ific fuel umption sponding to mum power, /h)	Evaluative	+ 10% max.	241 (D)	243	Yes
d)	Maxir equiv crank (Nm)		Non Evaluative	± 8%	196 (D)	180.7	Yes
е)	Back- perce	-up torque, ent	Evaluative	12 percent	18 (D) 12 (R)	18.6	Yes
f)	Maxir	num operating	temperature,	(°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.	130(D)	107	Yes
	2)	Coolant	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.	119(D)	97	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.44 Maximum (R)	0.16	Yes
h)	Smok	ke level, m <sup>-1</sup>	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR).	3.25 per meter Maximum (R)	0.40	Yes

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# MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO: 30/11/2027

1		2	3	4	5	6	7
6.1.2	Drav	wbar performar	ice:			'	
a)	Max with corre	. drawbar pull	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	18.00 (D) 17.30 (R) Minimum	20.75	Yes
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel		Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	14.00 (D) 13.52 (R) Minimum	15.86	Yes
c)	slip, (kN)  Maximum drawbar power without ballast/ with standard ballast, (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.	25.7 (D) 25.8 (R) Minimum	27.2	Yes
d)	Maximum transmission oil temperature, (°C)		Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	89	Yes
6.1.3		er lift and hydr					
a)	Max		acity throughout	the range of lift, (kN):			
	1)	At hitch points	Evaluative	Tolerance of ± 10%	16.67 (D)	16.51	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.	13.24 (D) 7.84(R) Minimum	12.36	Yes
b)	heigl appli force minu total Minu	mum drop in the ht of the point of ication of the e after each 5 ites interval for a duration of 30 ites, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	05	Yes
a)				rce, equal to or less than 600	) N on brake	nedal w	ith road
",		ast, (m):	alcianos at a 10	.00, 5quai to oi 1000 tilaii 000	, it on branc	, poddi W	1000
	1)	Cold brake	Evaluative	10	10 (R)	6.78	Yes
	2)	Hot brake	Evaluative	10	10 (R)	6.97	Yes
b)	exer peda dece m/s <sup>2</sup>		Evaluative	600	600 (R) Maximum	154 to 185	Yes
c)	force peda	ther parking e is effective at a e of 600 N at foot al (s) or 400 N at I lever	Evaluative	Yes / No	Yes	Yes	Yes

# MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO: 30/11/2027

1		2	3	4	5 6	7
6.1.5	OP1	TIONAL TESTS:		T	0   0	
	As t		not applied f	or any optional tests, therefo	ore no optional tes	ts was
6.1.6	Safe	ety features :				
a)	Gua	ords against ving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement	Yes
b)	Ligh	ting arrangement	Evaluative	As per CMVR	Meets the requirement	Yes
c)	(Tra	ting requirements actors having e than 1150 mm track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meet the requirement	No
d)		hnical uirements for PTO ft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement	Yes
е)		ensions of three it linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Does not meet the requirement	No
f)		cifications of age drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement	Yes
g)	Swinging drawbar (wherever fitted)		Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not provided	Not appli- cable
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph	11.26 (Meets the requirement)	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. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator before the delivery of tractor.	Not fitted	Not appli- cable
6.1.7	Lab	elling of tractors	(Provision of			
	1)	Make Model	Evaluative Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in	Mahindra YUVO TECH+575 DI	Yes Yes
	3)	Month & Year of manufacture	Evaluative	kW and year of manufacture in numerical form.  MM YY	06/22	Yes
	4)	Engine number	Evaluative	Digit 01 – 12 in box No.1for MM	NNC2GJE0046	Yes
	5)	Chassis number	Evaluative	will represent the months and next two digits in box No.2 for	MBNPFALBENN C01028	Yes
	6)	Maximum PTO power, (kW)	Evaluative	YY will represent the year of	32.1	Yes
	7)	Specific fuel consumption ,g/kWh	Evaluative	Manufacturing.	241	Yes

# MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO: 30/11/2027

1	2	3	4	5	6	7	
6.1.8	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	
6.1.9	Fitment of Roll Ov	er Protective	Structures (ROPS):				
	For tractor having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard	Not	fitted	Not applicable	
6.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Prov	vided	Yes	
6.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Not:	fitted	Not applicable	

6.2	CATEGORY OF BREAKDOWNS / DEFECTS ( As per clause 5.0 of IS:12207-2019):							
S. No.	Category of break-downs	Category (Evaluative	Requirements as per IS: 12207-2019	As observed	Whether meets the			
NO.	break-downs	/ Non	as per 13. 12207-2019		Require-men ts (Yes/No)			
		Evaluative)			13 (103/10)			
1.	Critical	Evaluative	No critical breakdown	None	Yes			
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes			
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two.	None	Yes			
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes			

#### 6.3 Conformity with following IS:

- Guidelines for declaration of power and specific fuel consumption and : Conforms labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]
- Agricultural tractors Rear mounted power take-off Types 1, 2 and 3 : Conforms (third revision) [IS:4931-1995 (Reaffirmed Year 2019)]
- Agricultural wheeled tractors Rear mounted three-point linkage: Part 1 : Does not Categories 1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) 1997 (Reaffirmed in 2022)]
- iv) Drawbar for agricultural tractors Link type [IS 12953:1990 (Reaffirmed : Conforms Year 2022)]
- v) Agricultural tractors- Operator's seat technical requirement [IS12343 : Does not 2021]
- vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 : Does not General requirements (first revision):[IS 12239 (Part 1) 2018] conform
- vii) Tractors and machinery for agriculture and forestry Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]
- viii) Guide lines for location and operation of operator controls on agricultural : Does not tractors and machinery [IS: 8133 2021] conform

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#### MAHINDRA, YUVO TECH+ 575 DI TRACTOR - INITIAL COMMERCIAL TEST

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Tractors and machinery for agriculture and forestry, powered lawn and : Conforms garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) - 2007 (Reaffirmed Year 2019)]

x) Agricultural Tractors and Machinery-Lighting device for travel on public : Conforms roads (IS:14683-1999) (Reaffirmed Year 2019)]

#### 6.4 Salient Observations:

#### 6.4.1 Operator's seat:

The following parameters does not meet the requirement of IS: 12343-2021.

- Inclination of seat towards rear direction has been measured as 1 degree against the requirement of 3 to 12 degree.
- ii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- iii) Vertical distance from SIP to centre of accelerator pedal has been measured as 475 mm against the requirement of 230 to 460 mm.
- iv) Vertical distance from SIP to centre of steering control wheel has been measured as 230 mm against the requirement of 265 to 385 mm.
- v) Longitudinal distance from SIP centre of differential lock pedal has been measured as 290 mm against the requirement of 410 to 720 mm.
- vi) Vertical distance of SIP from foot rest has been measured as 535 mm against the requirement of 450 to 520 mm.

Therefore, all of the above should be looked into for necessary corrective action.

#### 6.4.2 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) 2018.

- i) Vertical retainers on both sides of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

#### 6.4.3 Three point linkage:

The dimensions viz. diameter of hitch pin hole of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor and lateral movement of lower hitch points does not meet the requirements of IS:4468 (Part-I) – 1997. This should be looked into for corrective action.

#### 6.4.4 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

#### 6.5 Specification of Tractor:

Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification Sheet	As per Operator's manual
a)	Coolant as recommended	BIL MT-92	Mahindra M-Star Coolz Plus or coolant conforming to JIS K-2234 (P. No. 17-1)
b)	Coolant water ratio	1:4	In 1 litre of mineral water, add 50 to 60 ml concentrated antirust additive (Refer P. No. 12-5)
c)	Transmission oil	TRACT ELF MM/IOCL	Servo M-TRAC 30/M-Star genuine OIB oil or Servo MTRAC 30 (P. No. 17-1)
d)	Transmission oil change period	First change after 1200 hours of operation and subsequently after every 1200 hours of operation.	First change after 1300 hours of operation and subsequently after every 1200 hours of operation. (P. No. 18-3)

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6.6 Maintenance / Service Problems:

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

- 6.7 Recommendation with regard to safety on tractor:
  - Fuel shutoff knob does not remain in stop position as per the requirement of IS: 8133-2021.
  - ii) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
  - iii) The hand accelerator lever, when moved away from the operator (i.e. forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
  - iv) The working clearance between draft control lever and RHS fender has been measured as 10 mm against the minimum requirement of 70 mm.
  - v) The working clearance between Main gear lever and RHS fender has been measured as 60 mm against the minimum requirement of 70 mm.

Above parameters should be looked into for necessary corrective action.

- 6.8 Adequacy of Literature supplied with machine:
- 6.8.1 The following literatures were supplied with the test tractor for reference during the test: -
  - a) Operator Manual for "Mahindra YUVO TECH+ 575 DI" tractor model.
  - Parts catalogue for "Mahindra YUVO TECH+ 575 DI" tractor model.
  - Service manual for "Mahindra YUVO TECH+ 575 DI" tractor model.
- 6.8.2 The operator manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 incorporating, inter alia, the following:
  - Recommended ballast masses for different operations.

# TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

# **TESTING AUTHORITY**

C. V. CHIMOTE TEST ENGINEER	Muremennetote
P.K. PANDEY DIRECTOR	43n-1084

Draft Test Report compiled by Pratyush Satya, Senior Technical Assistant.

## 7. APPLICANT'S COMMENTS

Para	Our reference	Applicant's comments
7.1	6.5 & 6.8.2 (i)	Parameters will be studied and necessary will be initiated.

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## **ANNEXURE-I**

## TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	17
3.	Power lift and hydraulic pump performance test	1.5
4.	Drawbar performance test	19.0
5.	Brake performance test	1.8
6.	Nominal speed test	1.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	7.6
	TOTAL:	47.9