प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T- 1830/2361/2024

INITIAL COMMERCIAL TEST REPORT माह/Month : March, 2024

Application Reference No. 28/2023-24/42

(यह परीक्षण रिपोर्ट 31/03/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/03/2029)



Make of Agricultural Tractor : MAHINDRA

Model : 3140 OJA

Manufactured by : Mahindra & Mahindra Ltd. (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)

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MAHINDRA, 3140 OJA TRACTOR - INITIAL COMMERCIAL TEST

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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 15th 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: March Test Report No.: T-1830/2361/2024 Year: 2024



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

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[C] Tractor manufacturer's name and

address

Mahindra & Mahindra Ltd. (Farm Equipment Sector)

Mahindra Research Valley, Mahindra World

City, Plot No.41/1, Anjur P.O, District Chengalpattu-603004,

Location of tractor assembly

M/s. Mahindra & Mahindra Limited

(Farm Equipment Sector),

(i) Akurli Road, Kandivli (E), Mumbai – 400 101

(ii) MIDC, Hingna Road, Nagpur- 440016.

(iii) Khatima Panipat Highway, Rudrapur Udham Singh Nagar- 263 153

(iv) Jaipur- Ajmer Road, Jaipur- 303 007

(v) Near Bidar "T" Junction, Mahindra Nagar, Zaheerabad- 502 220

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

[C] Submitted for test by (Applicant)

[C] Selected for test by

: The Manufacturer

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.

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

[D] Duration of running-in, (h):

-Engine : 30 -Transmission : 16

[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 : 3140 OJA

[C] Type : Four Wheel Driven, Standard Agricultural

Tractor

[C] Month & year of manufacture : 08/23 [D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. or prototype : MBNM9HAPENZL00002 [C] Serial No. : MBNMJNNJEPZE00051

MAHINDRA, 3140 OJA TRACTOR - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO 31/03/2029

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 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: 12207-2022 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: 12207-2022 | 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 |
| | | | linistry's Office Memorandum | No. 13-17/ | /2021-M8 | tT (I&P) | |
| | dated 28 th of July, 2022). | | | | | | |
| 6.1.1 | _ | Performance: | | | | | 1 |
| a) | unde | mum power r 2 h test, (Natural | Evaluative | Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 | 26.0 (D) | 26.4 | Yes |
| | ambie | ent condition) | | kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW. | | | |
| b) | | er at rated e speed, (kW) | Non Evaluative | -do- | 26.0 (D) | 26.4 | Yes |
| c) | Specific fuel consumption corresponding to maximum power, (g/kWh) | | Evaluative | + 10% max. | 280 (D) | 272 | Yes |
| d) | Maxir equiv crank (Nm) | | Non Evaluative | ± 8% | 133.0 (D) | 127.8 | Yes |
| e) | | -up torque, ent | Evaluative | 12% min. | 25 (D) 12 (R) | 26.5 | Yes |
| f) | Maxir | mum 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 natural ambient/high ambient condition should not exceed the declaration. | 130 (D) | 110 | Yes |
| | 2) | Coolant | Evaluative | Observed value should not exceed the declared value or boiling point of the coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant. | 110 (D) | 97 | Yes |
| g) | (g/kV | umption, /h) | Evaluative | Not exceeding 1% of SFC at max. Power under natural ambient conditions. | 2.72 (R) Maximum | 1.06 | Yes |
| h) | (g/kWh) Smoke level, m ⁻¹ | | 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 (R) Maximum | 0.30 | Yes |

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| 1 | | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|--|--|--|---|---|---|-------------------------|
| 6.1.2 | Draw | bar performan | | 1 | | - | 1 |
| a) | Max. with corre perce (kN) | drawbar pull ballast sponding to 15 ent wheel slip, | Non Evaluative | Minimum 70% of static mass of tractor with ballast. | * | * | * |
| b) | witho corre | drawbar pull ut ballasted sponding to 15 ent wheel slip, | Evaluative | In case of tractors having total static mass ≥ 1 5 00 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1 500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be. | 8.7 (D) 9.05 (R) Minimum | 10.44 | Yes |
| c) | Maximum drawbar power without ballast/ with standard ballast, (kW). | | Evaluative | Min 80% of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1 500 kg. Min 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. Min 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. | 19.5 (D) 19.8 (R) Minimum | 20.7 | Yes |
| d) | | mum mission oil erature, (°C) | Evaluative | The declared value should not exceed the maximum value specified by oil company. | 120 (D) | 114 | Yes |
| | *Appl that t additi | icant vide letter noallast mass is no onal guideline fo | ot recommend r testing of tra | T/Mahindra2124OJA/23-24/03 da led for this model & requested to ctors vide OM No. 13-32/2023-N wbar test was not conducted. | to conduct th | e test as | per the |
| 6.1.3 | | | .,, | | | | |
| a) | | er lift and hydra | ulic pump pe | erformance: | | | |
| | Maxi | er lift and hydra mum lifting capa | | erformance: ut the range of lift, (kN): | | | |
| | Maxi | • | | | 7.99 (D) 7.19 (R) Minimum | 8.62 | Yes |
| | 2) | mum lifting capa At hitch points With the standard frame | city throughou Evaluative Evaluative | ut the range of lift, (kN): Should not be less than 90% | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum | 6.34 | Yes |
| b) | 2) Maximum heigh application force minutal Minutal | With the standard frame mum drop in the tof the point of cation of the after each 5 tes interval for a duration of 30 tes, (mm) | Evaluative Evaluative Non Evaluative | the range of lift, (kN): Should not be less than 90% of declared value. The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is | 7.19 (R) Minimum 7.85 (D) 6.21 (R) | | |
| b) | 2) Maximum heigh applied force minut total Minut Brak | With the standard frame mum drop in the after each 5 tes interval for a duration of 30 tes, (mm) e performance | Evaluative Evaluative Non Evaluative | st the range of lift, (kN): Should not be less than 90% of declared value. 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. The observed value should not exceed 50 mm. | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum 50 (D) Maximum | 6.34 | Yes |
| b) | 2) Maximum heigh applice force minution total Minution Brak Maximum ballas | Mum lifting capa At hitch points With the standard frame mum drop in the tof the point of cation of the after each 5 res interval for a duration of 30 res, (mm) e performance mum stopping dest, (m) | Evaluative Evaluative Non Evaluative at 25 kmph* istance at a f | st the range of lift, (kN): Should not be less than 90% of declared value. 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. The observed value should not exceed 50 mm. | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum 50 (D) Maximum | 6.34 10 pedal wi | Yes Yes |
| b) | 2) Maximum heigh applice force minute total Minute Brak Maximum ballare 1) | At hitch points With the standard frame mum drop in the after each 5 resinterval for a duration of 30 res, (mm) e performance mum stopping dest, (m) Cold brake | Evaluative Evaluative Non Evaluative at 25 kmph* istance at a f | should not be less than 90% of declared value. 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. The observed value should not exceed 50 mm. | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum 50 (D) Maximum N on brake | 6.34 10 pedal wi | Yes Yes th road Yes |
| b) 6.1.4 a) | 2) Maximum heigh applice force minution total Minution Brak Maximum ballas | With the standard frame mum drop in the tof the point of cation of the after each 5 res interval for a duration of 30 res, (mm) e performance mum stopping dist, (m) Cold brake Hot brake | Evaluative Non Evaluative at 25 kmph* istance at a f Evaluative Evaluative | st the range of lift, (kN): Should not be less than 90% of declared value. 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. The observed value should not exceed 50 mm. | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum 50 (D) Maximum N on brake | 6.34 10 pedal wi 6.29 6.58 | Yes Yes th road Yes Yes |
| b) | Maximus heigh application force minutal heigh Minutal heigh Minutal heigh Minutal heigh Minutal heigh force pedal hand | With the standard frame mum drop in the tof the point of cation of the after each 5 res interval for a duration of 30 res, (mm) e performance mum stopping dest, (m) Cold brake Hot brake her parking is effective at a of 600 N at foot (s) or 400 N at lever | Evaluative Evaluative Non Evaluative at 25 kmph* istance at a f Evaluative Evaluative Evaluative Evaluative Evaluative | should not be less than 90% of declared value. 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. The observed value should not exceed 50 mm. | 7.19 (R) Minimum 7.85 (D) 6.21 (R) Minimum 50 (D) Maximum N on brake 10 (R) 10 (R) Yes | 6.34 10 pedal wi 6.29 6.58 Yes | Yes Yes th road Yes |

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| 1 | 2 | | 3 | 4 | 5 6 | 7 |
|-------|---|------------|--|--|--|------------------------|
| 6.1.5 | OPTIONAL TESTS: | | J | | <u> </u> | · · |
| 00 | | olicant ha | s not applied | for any optional tests, theref | ore no optional tes | sts was |
| 6.1.6 | Safety features : | | | | | |
| a) | Guards against moving and hot parts | | noving and hot silencer, hydraulic pipe parts per IS 12239 (Part 2)] | | Meets the requirement | Yes |
| b) | Lighting arrangement | | Evaluative | As per CMVR | Meets the requirement | 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) | Tractor rear track width is less than 1150 mm | Not appli- cable |
| d) | Technical requirements for PTO shaft | | Non Evaluative | Should meet the requirements of IS: 4931 (As amended from time to time) | Meets the requirement | Yes |
| е) | Dimensions point linkag | e | Non Evaluative | Should meet the requirements of IS: 17231-2019 (As amended from time to time) | Meets the requirement | Yes |
| f) | Specifications of linkage drawbar | | Non Evaluative | Should meet the requirements of IS: 12953 (As amended from time to time) | Meets the requirement | Yes |
| g) | Specifications of swinging drawbar (wherever fitted) | | Non Evaluative | Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time) | Not provided | Not appli- cable |
| h) | Audible warning signal on tractor | | Evaluative | If tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. | Provided (The audible warning signal on tractor is activated when the speed in reverse gear reaches to 20 kmph i.e. HR4-22.08 kmph) & a sticker is pasted. | Yes |
| 6.1.7 | | | • | f labeling plate): | 1 | |
| | 1) Make | | Evaluative | Should conform to the | Mahindra | Yes |
| | 2) Mode 3) Mont Year | :h & | Evaluative Evaluative | requirements of CMVR along with maximum PTO Power in kW, specific fuel consumption (SFC) corresponding to | 3140 OJA 08/23 | Yes Yes |
| | 4) Engii | ne | Evaluative | maximum power in g/kWh and year of manufacture in numerical form. | ZPESUDV0066 | Yes |
| | 5) Chas | oer | Evaluative | MM YY | MBNMJNNJEPZ E00051 | Yes |
| | PTO (kW) | | Evaluative | Digit 01 – 12 in box No.1for MM will represent the months and next two digits in box No.2 for | 26.0 | Yes |
| | 7) Specific fuel consumption, g/kWh | | Evaluative | YY will represent the year of Manufacturing. | 280 | Yes |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------|---|-------------------|--|----------|---------|------------------------|
| 6.1.8 | Literature (Submission to test agency): | | | | | |
| (a) | Operator manual | Evaluative | The printed literature in | Prov | rided . | Yes |
| (b) | Parts Catalogue | Evaluative | booklet form should be | Provided | | Yes |
| (c) | Workshop/ | Evaluative | provided as per IS 8132 and | | | |
| | Service manual | | should submit along with the | Prov | rided . | Yes |
| | | | test sample. | | | |
| 6.1.9 | Fitment of Roll Over | r Protective Sti | ructures (ROPS): | | | |
| | For tractor having more than 1150 mm rear track width | | ROPS should meet the requirement of IS:1182 or OECD code or equivalent | Not | fitted | Not appli- cable |
| | | | International Standard | | | |
| 6.1.10 | Standard Accessories | Evaluative | Trailer hitch, front tow hook, linkage drawbar should be provided with tractor | Prov | rided | Yes |
| 6.1.11 | Accessories (optional) | Non Evaluative | Ballast weight, if fitted, should meet the requirement of CMVR | Not | fitted | Not applic- able |

| 6.2 | CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): | | | | |
|--|---|---|---|--|-----|
| S. No. Category of Category Requirements | | , | As observed | Whether meets the Requirements (Yes/No) | |
| 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 neither of them should be repetitive in nature. | 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:

i) 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 ii) (third revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors - Rear mounted three-point linkage: Part 1: Conforms

Categories 1N, 1, 2N, 2, 3N, 3, 4 & 4N [IS:17321-2019] Drawbar for agricultural tractors - Link type [IS 12953:1990 (Reaffirmed: Conforms iv)

Agricultural tractors- Operator's seat technical requirement [IS12343 - : v) Not 2021] applicable

(Tractor rear track width is less than 1150 mm)

Guide for safety & comfort of operator of agricultural tractors:Part 1: vi) Does not conform

General requirements (first revision):[IS 12239 (Part 1) - 2018]

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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

Tractors and machinery for agriculture and forestry, powered lawn and 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 PTO Performance Test:

Applicant vide letter no. FD/BVH/ICT/SU/3140OJA/23-24/03 dated 22.12.2023 has recommended that tractor operating range is from 1450 rpm to rated engine rpm under full load condition. Hence during PTO performance test, varying speed test was conducted upto 1450 rpm of engine only under natural and high ambient condition.

6.4.2 Operator's work place:

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

- i) Vertical retainer on inner side of clutch pedal was not provided
- ii) Spark arresting device has not been provided in the exhaust system
- iii) Master shield has not been provided.

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

6.4.3 PTO master shield:

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

6.4.4 Specification of Tractor:

Track width adjustment for front & rear is declared as fixed whereas both track width are adjustable. This should be looked into for corrective action.

6.5 Maintenance / Service Problems:

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

6.6 Recommendation with regard to safety on tractor:

- i) 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.
- ii) Color code on illuminated display of engine revolution gauge has not been provided as per the requirement as laid down in IS: 6283 (Part 2): 2007.
- iii) The distance of engine stop control from engine start control has been measured as 300 mm against the maximum requirement of 150 mm as laid down in Table-5 of IS: 8133-2021.

Above parameters should be looked into for necessary corrective action.

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6.7 Adequacy of Literature supplied with machine:

- 6.7.1 The following literatures were supplied with the test tractor for reference during the test:
 - a) Operator's Manual for "Mahindra 3132 OJA, Mahindra 3136 OJA, & Mahindra 3140" tractor model
 - b) Parts catalogue for "Mahindra 3132 OJA, Mahindra 3136 OJA, & Mahindra 3140"
 - c) Service manual for "Mahindra 3132 OJA, Mahindra 3136 OJA, & Mahindra 3140" tractor model.
- 6.7.2 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:
 - Safe hitch height for trailer.

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

TESTING AUTHORITY

| B.N DIXIT AGRICULTURAL ENGINEER | |
|---|--------|
| R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER | Randey |
| A. K. UPADHYAY DIRECTOR (I/C) | m |

Draft Test Report compiled by **B.N. Dixit**, Agricultural Engineering & **Poonam Khurasia**; Senior Technical Assistant.

7. APPLICANT'S COMMENTS

| Para no. | (| Our reference | Applicant's comments | |
|----------|-----|---------------|--|--|
| 7.1 . | , > | 6.7.2 | Parameters will be studied and necessary action 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 | 14.6 |
| 3. | Power lift and hydraulic pump performance test | 5.0 |
| 4. | Drawbar performance test | 5.5 |
| 5. | Brake performance test | 1.0 |
| 6. | Nominal speed test | 3.3 |
| B. | Miscellaneous test and other run hours including | 0.5 |
| | idle run, transportation, trials and preparation for | |
| | test. | |
| | TOTAL: | 29.9 |