

Application Reference No. 28/2022-23/118

(यह परीक्षण रिपोर्ट 30/09/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/09/2028)



Make of Agricultural Tractor : **JOHN DEERE**
Model : **5075E 4WD V1 GearPro LiftPro**
Manufactured by : **M/s. John Deere India Pvt. Ltd.**
Gat No.166 - 167 & 271 - 291,
Off. Pune-Nagar Road, Sanaswadi,
Pune - 412 208



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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T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

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: September	Test Report No.: T-1775/2306/2023	Year: 2023
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GOVERNMENT OF INDIA
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CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE – BUDNI	Page 2 of 35
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T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

[C]	Tractor manufacturer's name and address	:	M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208
[D]	Location of tractor assembly	:	(i) M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 (ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455 115
[C]	Submitted for test by (Applicant)	:	The Manufacturer
[C]	Selected for test by	:	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	:	20
	-Transmission	:	20
[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	:	JOHN DEERE
[C]	Model (trade name)	:	5075E 4WD V1 GearPro LiftPro
[C]	Type	:	Four Wheel Drive, Standard Agricultural Tractor.
[C]	Month & year of manufacture	:	10 & 22
[D]	Country of origin	:	India
1.1.2	Numbers:		
[D]	1 st Serial No. or prototype	:	1PY5075EVNA630956
[C]	Serial No.	:	1PY5075EVNA630956
1.2	Engine:		
[D]	Manufacturer's address	:	(i) M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi Taluka – Shirur, Pune - 412 208 (ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455 115
[C]	Make	:	John Deere India Pvt. Ltd.
[C]	Model	:	3029HPY113
[C]	Type	:	Four stroke, common rail direct injection, turbo charged, liquid cooled, diesel engine
[C]	Serial No.	:	PY3029U075082

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

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:

Sl. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&P) dated 28th of July, 2022).						
6.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power and or engine power >26 kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW.	47.6 (D)	46.3	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	47.0 (D)	44.9	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	255 (D)	263	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	290 (D)	284.2	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12 (D) 12 (R)	39.2	Yes
f)	Maximum operating temperature, ($^{\circ}$ 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.	135(D)	114	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.	120(D)	101	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under natural ambient conditions.	2.63 Maximum (R)	0.18	Yes
h)	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 Maximum (R)	0.10	Yes
6.1.2	Drawbar performance:					
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	24.5 (D)	--	Not applicable

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

1	2	3	4	5	6	7
b)	Max. drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	18.4 (D) 18.98 (R) Minimum	26.44	Yes
c)	Maximum drawbar power without 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 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.	38.1 (D) 37.0 (R) Minimum	42.4	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	110 (D)	102	Yes
6.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
	1) At hitch points	Evaluative	Should not be less than 90% of declared value.	25.0 (D) 22.5 (R) Minimum	23.91	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.	21.0 (D) 10.90 (R) Minimum	19.34	Yes
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 Minutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	05	Yes
6.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m):					
	1) Cold brake	Evaluative	10	10 (R)	7.55	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.65	Yes
b)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever	Evaluative	Yes / No	Yes	Yes	Yes
6.1.5	OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted.					
6.1.6	Safety features :					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement		Yes

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

1	2	3	4	5	6	7		
b)	Lighting arrangement	Evaluative	As per CMVR	Conforms		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 requirement		No		
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Does not meet the requirement		No		
e)	Dimensions of three point 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)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement		Yes		
g)	Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement 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	18.77 (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 applicable		
6.1.7	Labelling of tractors (Provision of labelling plate):							
	1)	Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <table border="1" style="margin-left: 20px;"> <tr> <td>MM</td> <td>YY</td> </tr> </table> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	MM	YY	John Deere	Yes
	MM	YY						
	2)	Model	Evaluative		5075E 4WD V1 GearPro LiftPro	Yes		
	3)	Month & Year of manufacture	Evaluative		10/22	Yes		
	4)	Engine number	Evaluative		PY3029U075082	Yes		
	5)	Chassis number	Evaluative		1PY5075EVNA630956	Yes		
	6)	Maximum PTO power, (kW)	Evaluative		47.6 (64.7)	Yes		
7)	Specific fuel consumption ,g/kWh	Evaluative	255 (187.6)		Yes			

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

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 Over 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	Provided		Yes
6.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		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:12207-2022):					
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	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 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:

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

- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 - 2021] : **Does not conform**
- ix) 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)] : **Conforms**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : **Conforms**

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 PTO Performance Test

During PTO performance test at Maximum power search test at natural ambient condition, unevenness in developed power was observed At some span of engine speed the engine power/torque is in increasing trend & immediate after it starts decreasing & again increasing. Thus there is no consistency in engine behavior.

Above situation was also observed in varying speed test at full load under Natural ambient condition.

During varying speed test at full load under high ambient condition, the engine speed fluctuation of 200 to 250 rpm was observed at an engine speed in the range of 1950 to 1850 rpm.

During two hour maximum power test under high ambient condition, the engine fluctuation was as follows.

Reading	Engine (rpm)	PTO (rpm)	Torque (N-m)	Power (kW)
1 st	2092 - 2104	542 - 545	285.4 - 754.1	16.20 - 43.04
2 nd	2092 - 2108	542 - 546	290.3 - 756.0	16.50 - 43.13
3 rd	2092 - 2119	542 - 549	293.6 - 713.3	16.73 - 40.71
4 th	2100 - 2127	544 - 551	322.1 - 486.4	18.35 - 27.72
5 th	2104 - 2115	545 - 548	288.4 - 392.3	16.46 - 22.43
6 th	2096 - 2111	543 - 547	271.1 - 372.0	15.45 - 21.27

Variation among above reading were more than ± 2.0 percent in average reading and maximum was observed was only 52.5% of maximum power recorded during varying speed at full load under high ambient condition.

Upon this, the manufacturer has submitted letter No. Nil dated 24.08.2023. The manufacturer has requested to hold the PTO test for 2-3 days to investigate the cause of continuous power fluctuation and one active diagnostic trouble code (DTC 412.00) observed on the instrument panel display. Subsequently, the applicant had submitted letter No. Nil dated 28.08.2023 and requested to grant permission for inspection/investigation of the problem on the tractor before the next test course.

The applicant has again submitted letter No. Nil dated 28.08.2023 and requested for replacement of Exhaust Gas Recycling (EGR) (Part No. DZ116610, Quantity-1 No.) assembly with new one along with the below listed parts of EGR Assembly before starting the next test course, which was allowed. Accordingly, the following parts have been replaced with new ones of same specifications.

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR – INITIAL COMMERCIAL TEST
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S.No.	Part No.	Part Name	Quantity
1.	DZ119347	Tube–exhaust gas recirculation cold side	1 No.
2.	DZ116925	Gasket-EGR gaskets cold side (BS-IV)	1 No.
3.	DZ116610	Exhaust gas recycling valve (BS-IV)	1 No.
4.	DZ116936	Gasket, EGR gaskets cold side (BS-IV)	1 No.
5.	DZ116943	Gasket, EGR (BS-IV)	1 No.
6.	DZ116942	Gasket, EGR (mixer to head) (BS-IV)	1 No.
7.	DZ116923	Gasket	2 No.
8.	AR21837	Clamp	2 No.
9.	DZ116608	Hose, EGR cooler IN	1 No.
10.	DZ116779	Heat exchanger, S320 BS IV	1 No.
11.	DZ116775	Tube-exhaust gas recirculation Hot side	1 No.
12.	DZ111910	Pressure sensor	1 No.
13.	DZ122879	Temperature sensor	1 No.

The applicant had submitted letter No. Nil. dated 30.08.2023. The applicant has submitted that “the power derate was observed during 2 hour maximum PTO power under high ambient condition. After investigation, the EGR cooler was found faulty and was replaced with new one. We are also agreed with the observation of PTO (2 hour maximum power) in high ambient condition test”. The applicant has requested to proceed further for remaining two tests (Drawbar-Unballasted and Hydraulic test) on the tractor, which was allowed.

6.4.1.2 Operator’s seat:

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

- i) Width of seat has been measured as 435 mm against the requirement of 450 mm.
- ii) Provision for adjustment of driver’s mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg

This should be looked into for necessary corrective action.

6.4.1.3 Operator’s work place:

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

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

This should be looked into for necessary corrective action.

6.4.1.4 Three point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch point does not meet the requirements of IS:4468 (Part-I) – 1997.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) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- This should be looked into for necessary corrective action.

6.7 Recommendation with regard to safety on tractor:

- i) The working clearance between draft control lever and position control lever has been measured as 60 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) - 2019.
- ii) The working clearance between position control lever and RHS mudguard has been measured as 60 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) - 2019.

Above parameters should be looked into for necessary corrective action.

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
	THIS TEST REPORT IS VALID UPTO: 30/09/2028

- 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's Manual for John Deere 5310, 5405 & 5075E tractor models.
 - b) Workshop/ Service/ Repair Technical Manual Part-1 & Part-2 for John Deere 5310, 5405 & 5075E tractor models.
 - c) Parts Catalogue for John Deere 5075E tractor model.

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

C. V. CHIMOTE TEST ENGINEER	
A. K. UPADHYAY DIRECTOR (I/C)	

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

7. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
7.1	6.4.1.1	During the PTO power test, RPM and Power fluctuation was observed, which occurred because of the Exhaust Gas Recycling (EGR) failure. This was diagnosed by the tractor electronic fault-finding system and indicated thru Diagnostic Trouble Code (DTC 412.00). The purpose of DTC is to provide accurate failure information to the farmer as well as technician for fast and easy repair of the tractor. The power derate is a preventive measure of the tractor system after any part of the system failure to avoid further damage to the tractor. The tractor starts to perform normally after the faulty part/system has been replaced.

T-1775/2306/2023	JOHN DEERE, 5075E 4WD V1 GearPro LiftPro TRACTOR - INITIAL COMMERCIAL TEST
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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	17.2
3.	Power lift and hydraulic pump performance test	3.8
4.	Drawbar performance test	5.5
5.	Brake performance test	2.0
6.	Nominal speed test	2.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	2.4
TOTAL:		32.9