
EU TYPE-APPROVAL CERTIFICATE

Communication concerning:

EU type approval of a complete vehicle type

with regard to Regulation (EU) No 167/2013,
as last amended by (Commission Delegated) Regulation (EU) No 2019/519

EU type-approval No: e5*167/2013*00088*00

Reasons for extension/refusal/withdrawal: Not Applicable

SECTION I

1.1. Make(s) (trade name(s) of manufacturer): Erdallar, ŞNM Erdallar, Ermach

1.2. Type: ERD1

1.2.1. Variant(s): See Information Document

1.2.2. Version(s): See Information Document

1.2.3. Commercial name(s) (if available): Erdallar Rigid Drawbar Trailer

1.3. Category, subcategory and speed index of vehicle: R3a

1.4. Company name and address of the manufacturer of the complete vehicle:

ERDAL TICARET TARIMSAL MAKINA PETROL URONLERI NAKLIYE INŞAAT
HAYVANCILIK SANAYI VE TICARET LIMITED ŞİRKETİ
Gaziosmanpaşa OSB Mahallesi 17. Cadde No 4/A
Altıyıldız / BALIKESİR
Turkey

1.4.1. Name(s) and address(es) of assembly/manufacture plant(s):

ERDAL TICARET TARIMSAL MAKINA PETROL URONLERI NAKLIYE INŞAAT
HAYVANCILIK SANAYI VE TICARET LIMITED ŞİRKETİ
Gaziosmanpaşa OSB Mahallesi 17. Cadde No 4/A
Altıyıldız / BALIKESİR
Turkey



1.4.2. Name and address of the manufacturer's authorised representative, (if any):

Veselin Metodiev Veselinov
Veliko Turnovo 5000,
Ul. Aleks Konstantinov 61 V, floor 2, ap. 5
Bulgaria

SECTION II

1. Technical service responsible for carrying out the tests:

Vincotte nv
Jan Oleslagerilaan 35
1800 Vilvoorde
Belgium

2. Date of test report: 22 December 2022

3. Number of test report: H226 1079895001

SECTION III

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or more representative samples, selected by the EU type-approval authority, have been submitted as prototypes of the vehicle type and that the attached test results apply to the vehicle type.

1. The complete vehicle meets/does not meet all relevant requirements as listed in Annex I to Regulation (EU) No 167/2013.
 - 1.1. Restrictions of validity: Not applicable
 - 1.2. Waivers applied: Not applicable
 - 1.2.1 Reasons for the waivers: Not applicable
 - 1.2.2 Alternative requirements: Not applicable
2. The approval: GRANTED / EXTENDED / REFUSED / WITHDRAWN
 - 2.1. The approval is granted in accordance with Article 35 of Regulation (EU) No 167/2013 and the validity of the approval is thus limited to DDMMYYYY: Not applicable

Place: Borlänge

Date: 11 February 2023

Signature:



Anna-Karin Bergström
Head of Section Vehicle Type Approval

Attachments: Information package

Test results

Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company

A completed specimen of the certificate of conformity

ADDENDUM

to the EU type-approval certificate e5*1672013*00086*00

List of regulatory acts with which the type of vehicle complies

To be filled in only in the case of type-approval in accordance with Article 25(6) of Regulation (EU) No 167/2013

Item	Subject	Regulatory act reference	As amended by and/or stage of implementation	Applicable to version
------	---------	--------------------------	--	-----------------------

VEHICLE FUNCTIONAL SAFETY REQUIREMENTS

1.	Vehicle structure integrity	Commission Delegated Regulation (EU) 2015/208 Annex I	2015/829	All
2.	Maximum design speed, speed governors and speed limitation devices	Commission Delegated Regulation (EU) 2015/208 Annex III	2015/829	Not applicable
3.	Steering for fast tractors	Commission Delegated Regulation (EU) 2015/208 Annex IV	2015/829	Not applicable
4.	Steering	Commission Delegated Regulation (EU) 2015/208 Annex V	2015/829	Not applicable
5.	Speedometers	Commission Delegated Regulation (EU) 2015/208 Annex VI	2015/829	Not applicable
6.	Field of vision and windscreen wipers	Commission Delegated Regulation (EU) 2015/208 Annex VII	2015/829	Not applicable

7.	Glazing	Commission Delegated Regulation (EU) 2015/208 Annex VIII	2018/629	Not applicable
8.	Rear-view mirrors	Commission Delegated Regulation (EU) 2015/208 Annex IX	2018/629	Not applicable
9.	Driver information systems	Commission Delegated Regulation (EU) 2015/208 Annex X	2018/629	Not applicable
10.	Lighting, light signalling devices and their light sources	Commission Delegated Regulation (EU) 2015/208 Annex XI	2018/629	All
11.	Lighting installation	Commission Delegated Regulation (EU) 2015/208 Annex XII	2018/629	All
12.	Vehicle occupant protection, including: interior fittings, head restraints, seat belts, vehicle doors	Commission Delegated Regulation (EU) 2015/208 Annex XIII	2018/629	Not applicable
13.	Vehicle exterior and accessories	Commission Delegated Regulation (EU) 2015/208 Annex XIV	2018/629	All
14.	Electro-magnetic compatibility	Commission Delegated Regulation (EU) 2015/208 Annex XV	2018/629	Not applicable
15.	Audible warning devices	Commission Delegated Regulation (EU) 2015/208 Annex XVI	2018/629	Not applicable

16.	Heating systems	Commission Delegated Regulation (EU) 2015/208 Annex XVII	2015/629	Not applicable
17.	Devices to prevent unauthorized use	Commission Delegated Regulation (EU) 2015/208 Annex XVIII	2015/629	Not applicable
18.	Registration plates	Commission Delegated Regulation (EU) 2015/208 Annex XIX	2015/629	All
19.	Statutory plates and markings	Commission Delegated Regulation (EU) 2015/208 Annex XX	2015/629	All
20.	Dimensions and trailer masses	Commission Delegated Regulation (EU) 2015/208 Annex XXI	2015/629	All
21.	Maximum laden mass	Commission Delegated Regulation (EU) 2015/208 Annex XXII	2015/629	All
22.	Ballast masses	Commission Delegated Regulation (EU) 2015/208 Annex XXIII	2015/629	Not applicable
23.	Safety of electrical systems	Commission Delegated Regulation (EU) 2015/208 Annex XXIV	2015/629	All

24.	Fuel tanks	Commission Delegated Regulation (EU) 2015/208 Annex XXV	2015/629	Not applicable
25.	Rear protective structures	Commission Delegated Regulation (EU) 2015/208 Annex XXVI	2015/629	All
26.	Lateral protection	Commission Delegated Regulation (EU) 2015/208 Annex XXVII	2015/629	Not applicable
27.	Load platforms	Commission Delegated Regulation (EU) 2015/208 Annex XXVIII	2015/629	Not applicable
28.	Towing devices	Commission Delegated Regulation (EU) 2015/208 Annex XXIX	2015/629	Not applicable
29.	Tyres	Commission Delegated Regulation (EU) 2015/208 Annex XXX	2015/629	All
30.	Spay-suppression systems	Commission Delegated Regulation (EU) 2015/208 Annex XXXI	2015/629	Not applicable
31.	Reverse gear	Commission Delegated Regulation (EU) 2015/208 Annex XXXII	2015/629	Not applicable

32.	Tracks	Commission Delegated Regulation (EU) 2015/208 Annex XXXIII	2015/829	Not applicable
33.	Mechanical couplings	Commission Delegated Regulation (EU) 2015/208 Annex XXXIV	2015/829	All

VEHICLE BRAKING REQUIREMENTS

Item	Subject	Regulatory act reference	As amended by and/or stage of implementation	Applicable to version
34.	Construction and fitting of braking devices and trailer braking couplings	Commission Delegated Regulation (EU) 2015/68 Annex I	2015/828	All
35.	Testing and performance of braking systems and trailer braking couplings and of vehicles fitted with them	Commission Delegated Regulation (EU) 2015/68 Annex II	2015/828	All
36.	Measurement of the response time	Commission Delegated Regulation (EU) 2015/68 Annex III	2015/828	All
37.	Energy sources and energy storage devices of braking systems and trailer braking couplings and to vehicles fitted with them	Commission Delegated Regulation (EU) 2015/68 Annex IV	2015/828	All
38.	Spring brakes and vehicles fitted with them	Commission Delegated Regulation (EU) 2015/68 Annex V	2015/828	All
39.	Parking braking systems equipped with a mechanical brake-cylinder locking device	Commission Delegated Regulation (EU) 2015/68 Annex VI	2015/828	All

40.	Alternative test requirements for vehicles for which Type-I, Type-II or Type-III tests are not mandatory	Commission Delegated Regulation (EU) 2015/668 Annex VII	2018/828	All
41.	Testing of inertia braking systems, braking devices and trailer braking couplings and of vehicles fitted with them as regards braking	Commission Delegated Regulation (EU) 2015/668 Annex VIII	2018/828	Not applicable
42.	Vehicles with hydrostatic drive and their braking devices and braking systems	Commission Delegated Regulation (EU) 2015/668 Annex IX	2018/828	Not applicable
43.	Safety aspects of complex electronic vehicle control systems	Commission Delegated Regulation (EU) 2015/668 Annex X	2018/828	Not applicable
44.	Test procedures applying to anti-lock braking systems and to vehicles fitted with them	Commission Delegated Regulation (EU) 2015/668 Annex XI	2018/828	Not applicable
45.	EBS of vehicles with compressed-air braking systems or of vehicles with data communication via pin 6 and 7 of ISO 7638 connector and to vehicles fitted with such EBS	Commission Delegated Regulation (EU) 2015/668 Annex XII	2018/828	Not applicable
46.	Hydraulic connections of the single-line type and to vehicles fitted with them	Commission Delegated Regulation (EU) 2015/668 Annex XIII	2018/828	Not applicable

VEHICLE CONSTRUCTION AND GENERAL TYPE APPROVAL REQUIREMENTS

47.	Arrangements with regard to type-approval procedures, including the requirements relating to virtual testing	Commission Delegated Regulation (EU) No 1322/2014 Annex III	2018/830	Not applicable
-----	--	---	----------	----------------

48.	Arrangements with regard to conformity of production	Commission Delegated Regulation (EU) No 1322/2014 Annex IV	2018/830	All
49.	Access to repair and maintenance information	Commission Delegated Regulation (EU) No 1322/2014 Annex V	2018/830	All
50.	Roll-over protection structures (dynamic testing)	Commission Delegated Regulation (EU) No 1322/2014 Annex VI	2018/830	Not applicable
51.	Roll-over protection structures (track-laying tractors)	Commission Delegated Regulation (EU) No 1322/2014 Annex VII	2018/830	Not applicable
52.	Roll-over protection structures (static testing)	Commission Delegated Regulation (EU) No 1322/2014 Annex VIII	2018/830	Not applicable
53.	Roll-over protection structures (front mounted roll-over protective structures on narrow-track tractors)	Commission Delegated Regulation (EU) No 1322/2014 Annex IX	2018/830	Not applicable
54.	Roll-over protection structures (rear mounted roll-over protective structures on narrow-track tractors)	Commission Delegated Regulation (EU) No 1322/2014 Annex X	2018/830	Not applicable
55.	Falling objects protection structures	Commission Delegated Regulation (EU) No 1322/2014 Annex XI	2018/830	Not applicable

56.	Passenger seats	Commission Delegated Regulation (EU) No 1322/2014 Annex XII	2018/830	Not applicable
57.	Driver's exposure to noise level	Commission Delegated Regulation (EU) No 1322/2014 Annex XII	2018/830	Not applicable
58.	Driving seat	Commission Delegated Regulation (EU) No 1322/2014 Annex XIV	2018/830	Not applicable
59.	Operating space and to access to the driving position	Commission Delegated Regulation (EU) No 1322/2014 Annex XV	2018/830	Not applicable
60.	Power take-offs	Commission Delegated Regulation (EU) No 1322/2014 Annex XVI	2018/830	Not applicable
61.	Protection of drive components	Commission Delegated Regulation (EU) No 1322/2014 Annex XVII	2018/830	Not applicable
62.	Seat-belt anchorage	Commission Delegated Regulation (EU) No 1322/2014 Annex XVIII	2018/830	Not applicable
63.	Safety belts	Commission Delegated Regulation (EU) No 1322/2014 Annex XIX	2018/830	Not applicable

64.	Protection against penetrating objects	Commission Delegated Regulation (EU) No 1322/2014 Annex XX	2018/830	Not applicable
65.	Exhaust system	Commission Delegated Regulation (EU) No 1322/2014 Annex XX	2018/830	Not applicable
66.	Operator's manual	Commission Delegated Regulation (EU) No 1322/2014 Annex XXII	2018/830	All
67.	Control devices, including safety and reliability of control systems and emergency and automatic stop devices	Commission Delegated Regulation (EU) No 1322/2014 Annex XXIII	2018/830	Not applicable
68.	Protection against other mechanical hazards	Commission Delegated Regulation (EU) No 1322/2014 Annex XXIV	2018/830	Not applicable
69.	Guards and protective devices	Commission Delegated Regulation (EU) No 1322/2014 Annex XXV	2018/830	Not applicable
70.	Information warnings and markings	Commission Delegated Regulation (EU) No 1322/2014 Annex XXVI	2018/830	Not applicable
71.	Materials and products	Commission Delegated Regulation (EU) No 1322/2014 Annex XXVII	2018/830	Not applicable

72.	Batteries	Commission Delegated Regulation (EU) No 1322/2014 Annex XIV/III	2018/830	Not applicable
73.	Protection against hazardous substances	Commission Delegated Regulation (EU) No 1322/2014 Annex XXX	2018/830	Not applicable
74.	Performance standards and assessment of technical services	Commission Delegated Regulation (EU) No 1322/2014 Annex XXX	2018/830	Not applicable

ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS

75.	EU type-approval of a type of engine or engine family for an agricultural and forestry vehicle type as a component / separate technical unit regarding the pollutants emitted	Commission Delegated Regulation (EU) 2016/1628 Annex I	2021/1068	Not applicable
76.	EU type-approval of an agricultural and forestry vehicle type equipped with an engine type or engine family regarding the pollutants emitted	Commission Delegated Regulation (EU) 2018/985 Annex I	2022/518	Not applicable
77.	External sound emission	Commission Delegated Regulation (EU) 2018/985 Annex II	2022/518	Not applicable

APPENDIX 1 TO ANNEX VII TO EU 2015/504: TEST RESULTS
1. Results of the sound level test (internal): Not applicable

Measured in accordance with Annex II to Commission Delegated Regulation (EU) 2018/985, as last amended by Commission Delegated Regulation (EU) 2022/518.

Variant / Version:	-	-	-
Moving (dB(A)):	-	-	-
Stationary (dB(A)):	-	-	-
Engine speed (min ⁻¹):	-	-	-

2. Results of the exhaust emissions tests : Not applicable

Measured according to:

- Commission Delegated Regulation (EU) 2018/985, as last amended by Commission Delegated Regulation (EU) .../... no; or
- Regulation (EU) 2016/1628 of the European Parliament and of the Council, as last amended by (Commission Delegated) Regulation (EU) 2016/1628 (of the European Parliament and of the Council): yes/no
- Regulation (EC) No 595/2009 of the European Parliament and of the Council, as last amended by (Commission Delegated) Regulation (EU) (No) .../... (of the European Parliament and of the Council): yes/no

2.1. NRSC : ESC / WHSC final test results (inclusive of Deterioration Factor) :

Variant/Version	-	-	-
CO (g/kWh)	-	-	-
HC (g/kWh)	-	-	-
NO _x (g/kWh)	-	-	-
HC+NO _x (g/kWh)	-	-	-
PM (g/kWh)	-	-	-
PN (#/kWh)	-	-	-

2.2. Non-road transient test cycle : ETC /WHTC final test results (inclusive of Deterioration Factor)

Variant/Version	-	-	-
CO (g/kWh)	-	-	-
HC (g/kWh)	-	-	-
NO _x (g/kWh)	-	-	-
HC+NO _x (g/kWh)	-	-	-
PM (g/kWh)	-	-	-
PN (#/kWh)	-	-	-

2.3. CO₂

Variant/Version	-	-	-
CO ₂	-	-	-

3. Drives-perceived so und level: Not applicable

Measured according to Annex XIII to Commission Delegated Regulation (EU) No 1322/2014, as last amended by Commission Delegated Regulation (EU) 2018/830

Variant/Version	-	-	-
Driver's exposure to noise level (dB(A))	-	-	-
Test method used: Test method 1 in accordance with section 2 of Annex XIII to Commission Delegated Regulation (EU) No 1322/2014 Test method 2 in accordance with section 3 of Annex XIII to Commission Delegated Regulation (EU) No 1322/2014			

4. Braking performance:

Measured according to Annex II to Commission Delegated Regulation (EU) 2015/68, as last amended by Commission Delegated Regulation (EU) 2018/829

Table I

	Axes of the vehicle			Reference axes		
	Static mass (P) ^(*)	Braking force needed at wheels	Speed	Test mass (P ₀) ^(*)	Braking force developed at wheels	Speed
	kg	N	Km/h	kg	N	km/h
Axle 1	-	-	-	-	-	-
Axle 2	-	-	-	-	-	-
Axle 3	-	-	-	-	-	-
Axle 4	-	-	-	-	-	-

(*) See point 2.1. of Appendix 1 to Annex VII of Regulation (EU) 2015/68.

Table II

Total mass of the vehicle submitted for approval	kg
Braking force needed at wheels	N
Retarding torque needed at main shaft of endurance braking system	Nm
Retarding torque obtained at main shaft of endurance braking system (according to diagram)	Nm

Table III

Reference axle	Report No.	Date (copy attached)
ID1-FD300135	LC 1381 001 22	04.02.2022
ID1-FD285	LC 1381 002 18	02.01.2019
ID1-FD4220	LC 1381 003 18	02.01.2019
ID1-FD309	LCTR 1381 006 19	05.11.2019
ID1-FD408	LCTR 1381 007 19	11.11.2019
ID1-FD306	TST415851	07.12.2017
ID1-FD4012	TST415854	17.12.2017
ID1-DMS09	21-TAMO-0347	05.11.2021
ID1-DMS-000'60	TST417895	22.01.2018
ID1-DMS-000'90	TST417896	28.05.2018
ID1-PXXXXXX4218PXXXXXXX	004812-H68	22.01.2020
ID1-PXXXXXX096PXXXXXXX	27091-18-TAC	23.08.2018
ID1-PXXXXXX096PXXXXXXX	12080-19-TAC	18.02.2019
ID1-PXXXXXX096PXXXXXXX	120252-19-TAC	23.05.2019
ID1-A406P	361-036-18	06.07.2018
ID1-A35Q	361-047-20	13.10.2020
ID1-A406I	361-081-18	20.12.2018
ID1-LY'S 300x60	22-TAMO-0018	24.02.2022
ID1-LY'S 400x90	22-TAMO-0030	29.03.2022
ID1-LY'S 300x90	22-TAMO-0044_1K	14.06.2022
	Type-1	Type-III
Brake force per axle (N) (See point 4.2.1. of Appendix 1 to Annex VII to Regulation (EU) 2015/68)	See brake calculations	See brake calculations
Axle 1 Axle 2		
Predicted actuator stroke (mm) (See point 4.3.1.1. of Appendix 1 to Annex VII to Regulation (EU) 2015/68)	See brake calculations	See brake calculations
Axle 1 Axle 2		
Average thrust output (N) (See point 4.3.1.2. of Appendix 1 to Annex VII to Regulation (EU) 2015/68)	See brake calculations	See brake calculations
Axle 1 Axle 2		

Braking performance (N) (See point 4.3.1.4. of Appendix 1 to Annex VII to Regulation (EU) 2015/68)	See brake calculations	See brake calculations	
Axle 1 Axle 2			
	Type-0 subject loaded vehicle test result (E)	Type-I hot (predicted)	Type-III hot (predicted)
Braking performance of vehicle (See points 2.3.3, 2.4.3 and 2.5.5 of Annex II to Regulation (EU) 2015/68)	See brake calculations	See brake calculations	See brake calculations