



NSAI

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:²

Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
Production definitively discontinued

of a fuel tank pursuant to Regulation No. 34.

Approval No: **E24*34R03/02*0174*00**

Reason for extension:

N/A

1. Trade name or mark of the fuel tank:

DÜZCE SAĞLAM DEPO - HÜSEYİN SAĞLAM

2. Manufacturer's name for the type of fuel tank:

FUEL TANK

3. Manufacturer's name and address:

***Düzce Sağlam Depo - Hüseyin Sağlam
D-100 Karayolu Üzeri, Düzce Cad. No:99,
TR-81750 Çilimli/Düzce,
Turkey***

4. If applicable, name and address of manufacturer's representative:

N/A

5. Brief description of fuel tank and fuel of the fuel feeding installation:

***Material: Aluminium and Steel
Capacity: 200, 300, 400, 450, 500, 600,
650 L
Fuel: Diesel***

5.1 Characteristics and site of fuel tank:

See manufacturer's information document for details

5.2 For fuel tanks made of a plastic material, state material and trade name or trade mark:

N/A

¹ Distinguishing number of the country which has granted/extended/refused/withdrawn/ the approval (see approval provisions in the Regulation).

² Strike out what does not apply.



NSAI

Approval No: E24*34R03/02*0174*00

- 6 Submitted for approval on: **25.02.2021**
7. Technical service responsible for conducting approval tests: **TÜV AUSTRIA AUTOMOTIVE GMBH
Deutschstraße 10, A-1230
Vienna**
8. Date of report issued by that service: **03.03.2021**
9. Number of report issued by that service: **21-TUV-ATR-EU-0009**
10. Reason(s) for extension, if applicable: **N/A**
11. Approval granted/~~refused~~/~~extended~~/~~withdrawn~~: **Granted**
12. Position of approval mark on the fuel tank: **See test report 21-TUV-ATR-EU-0009
and accompanying manufacturers
informationn document for details**
13. Place: **Dublin**
14. Date: **11th March, 2021**
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.





NSAI

Approval No: E24*34R03/02*0174*00

Index to the Information Package

Date of issue: *11th March, 2021*

Date of latest amendment: *N/A*

Reason for extension/revision: *N/A*

1. Additional conditions, and advisory notes on legal alternatives.

2. Test report(s)

- numbers(s): *21-TUV-ATR-EU-0009*

- date of issue: *03.03.2021*

- date of latest amendment: *N/A*

3. Information document

- number(s): *DSD-001*

- date of issue: *11.11.2020*

- date of latest amendment: *N/A*

Documentation: *24 pages*



Approval No: **E24*34R03/02*0174*00**

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

TECHNICAL REPORT

21-TUV-ATR-EU-0009

Test of a type of a vehicle with regard to

Regulation No. ECE R34.03
Supplement 2 to the 03 series of amendments

**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF:
VEHICLES WITH REGARD TO THE PREVENTION OF FIRE RISKS**

PART III **APPROVAL OF TANKS FOR LIQUID FUEL AS SEPARATE TECHNICAL UNITS**

Date of Entry Into Force
28.05.2019

Approval Status	
<input checked="" type="checkbox"/>	Granting of a type approval
<input type="checkbox"/>	Extension to type approval number:
<input type="checkbox"/>	Correction to type approval number:

D-Nr.: 190038/0000

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

I. General

- I.1 Make: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
- I.2 Type: FUEL TANK
- I.3 Means of identification of type, if marked on the separate technical unit: Via Approval Mark
- I.3.1 Location of the approval mark: Top of the Fuel Tank
- I.4 Category of vehicle on which the tank will be installed: O₃ and O₄
- I.5 Name and address of manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
D-100 Karayolu üzeri Düzce Cad. No:99
TR-81750 Çilimli/DÜZCE
- I.6 Address of assembly plant(s): D-100 Karayolu üzeri Düzce Cad. No:99
TR-81750 Çilimli/DÜZCE
- I.7. Information folder no: DSD-001
Document date: 11.11.2020
- I.8. Parameter of the test area: 29 °C,
%45 Humidity and clean

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

TEST SPECIFICATION AND WORST-CASE RATIONALE

Since aluminum has greater thermal conductivity than steel, aluminum tank which has the highest volume (650 lt) with the NESAN 2007 0006 fuel cap is tested and covers other tanks that have different amount of volumes to set up the worst-case scenario according to Part III – Approval of Tanks for Liquid Fuel as Separate Technical Units of the ECE R 34.03.

Tests Required	Status
Hydraulic Test	Yes
Overturn Test	Yes
Visual Inspection	Yes

MANUFACTURER'S DOCUMENTATION	
Manufacturer's documentation is complete and reflects the agreed specification for the separate technical unit tested and covers other tanks that have different amount of volumes.	Yes

Facility and Equipment Checks			
Calibration certificates checked and valid, recorded in the following table:			Fulfilled
Equipment	ID - No.	Type	Calibration Due Date
Manometer	AUTO-052	CL2,5	13.08.2021
Tape Measure	AUTO-090	FISCO H146950132013	05.03.2021
Chronometer	AUTO-028	Q&Q	24.01.2021

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

II. Test Report

II.1. Test Specification

II.1.1. Test Unit

VIN Number	N.A.
Vehicle Category	N.A.
Vehicle Class	N.A.
Variant	N.A.
Version	N.A.
Data of the test vehicle	N.A.
Engine Manufacturer	N.A.
Engine Type	N.A.
Engine System	N.A.
Fuel Tank	Yes
Manufacturer	DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Part Number	N.A.
Nominal Volume	650 lt
Instriction of filler cap	Lockable Vented Filler Cap
Drawing Number of filler cap	See Information Document DSD-001 Annex 2

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

II.2.	General Requirements	Results
II.2.1.	Tanks shall be made so as to be corrosion-resistant.	Fulfilled
II.2.2.	Tanks shall satisfy, when equipped with all accessories, which are normally attached to them, the leakage tests carried out according to Paragraph 6.1 at a relative internal pressure equal to double the working overpressure, but in any event not less than an overpressure of 30 kPa (0.3 bar). Tanks made of a plastic material are considered as meeting this requirement if they have passed the test described in Annex 5, Paragraph 2.	Fulfilled N.A.
II.2.3.	Any excess pressure or any pressure exceeding the working pressure shall be compensated automatically by suitable devices (vents, safety valves, etc.).	Fulfilled
II.2.4.	The fuel shall not escape through the tank cap or through the devices provided to compensate excess pressure during the foreseeable course of operation of the vehicle. In the case of overturning of the vehicle, a drip may be tolerated provided that it does not exceed 30g/min; this requirement shall be verified during the test prescribed in Paragraph 6.2.	Fulfilled
II.2.4.1.	The fuel filler cap shall be fixed to the filler pipe.	Fulfilled
II.2.4.1.1.	The requirements of Paragraph 5.9.1 shall be deemed to be satisfied if provision is made to prevent excess evaporative emissions and fuel spillage caused by a missing fuel filler cap. This may be achieved using one of the following:	
II.2.4.1.1.1.	An automatically opening and closing, non-removable fuel filler cap,	N.A.

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

- II.2.4.1.1.2.** Design features which avoid excess evaporative emissions and fuel spillage in the case of a missing fuel filler cap, N.A.
- II.2.4.1.1.3.** Any other provision which has the same effect. Examples may include, but are not limited to, a tether filler cap, a chained filler cap or one utilising the same locking key for the filler cap and for the vehicle's ignition. In this case, the key shall be removable from the filler cap only in the locked condition. However, the use of tethered or chained filler cap by itself is not sufficient for vehicles other than those of Categories M1 and N1. Yes
- II.2.4.2.** The seal between the cap and the filler pipe shall be retained securely in place. The cap shall latch securely in place against the seal and filler pipe when closed. Fulfilled
- II.2.5.** The fuel tank(s) shall be made of a fire-resistance metallic material. It (they) may be made of a plastic material provided the requirements of Annex 5 are complied with. Fulfilled
- II.2.6.** In case the tanks are to be approved without their accessories the manufacturer's documentation shall clearly identify the accessories used for the test. N.A.
- II.3. Test Requirements**
- II.3.1. Hydraulic Test**
- II.3.1.1.** The tank shall be subjected to a hydraulic internal pressure test which shall be carried out on an isolated unit complete with all its accessories. The tank shall be completely filled with a non-flammable liquid (water, for example). After all communication with the outside has been cut off, the pressure shall be gradually increased, through the pipe connection through which fuel is fed to the engine, to a relative internal pressure equal to double the working pressure used and in any case to not less than an excess pressure of 30 kPa (0.3 bar), which shall be Fulfilled

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

maintained for 1min. During this time the tank shell shall not crack or leak; however, it may be permanently deformed.

II.3.2. Overturn Test

II.3.2.1. The tank and all its accessories shall be mounted on a test fixture in a manner corresponding to the mode of installation on the vehicle for which the tank is intended: this also applies to systems for the compensation of the interior excess pressure. Fulfilled

II.3.2.2. The test fixture shall rotate about an axis lying parallel to the longitudinal vehicle axis. Fulfilled

II.3.2.3. The test shall be carried out with the tank filled to 90% of its capacity and also 30% of its capacity with a non-flammable liquid having a density and a viscosity close to those of the fuel normally used (water may be accepted). Fulfilled

II.3.2.4. The tank shall be turned from its installed position 90° to the right. The tank shall remain in this position for at least 5min. The tank shall then be turned 90° further in the same direction. The tank shall be held in this position, in which it is completely inverted, for at least another 5min. The tank shall be rotated back to its normal position. Testing liquid that has not flowed back from the venting system into the tank shall be drained and replenished if necessary. The tank shall be rotated 90° in the opposite direction and left for at least 5min in this position. Fulfilled

The tank shall be rotated 90° further in the same direction. This completely inverted position shall be maintained for at least 5min. Afterwards the tank shall be rotated back to its normal position. Fulfilled

The rotation rate for each successive increment of 90° shall take place in any time interval from 1 to 3min. Fulfilled

Manufacturer: DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
Type : FUEL TANK

- II.4. Test results** Separate technical unit meets the requirements and successfully passed the test.
- II.5. Place and date of Inspection:** Manufacturer plant area / 20.11.2020 – Düzce/TURKEY

III. Enclosures

Information document of the separate technical unit type “FUEL TANK” according to ECE R34.03 (**Document Number; (DSD-001)), Dated 11.11.2020**)

IV. Final Confirmation

As the result of inspections of **DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM** company’s sample tank, it has been confirmed that the sample tank fulfilled the requirements related to the ECE R34.03 as given.

This report must not be duplicated without written approval of TUV AUSTRIA AUTOMOTIVE.

This technical report consists of 8 pages.

TR-Duzce
03.03.2021




Kenan KAŞIKCI
Recognized Expert/Signature

	INFORMATION DOCUMENT According to ECE R34.03 Prevention of Fire Risks	Document No.	DSD-001
		Issue Date	11.11.2020
		Extension Date	-
		Extension Number	-
	TYPE: FUEL TANK	Page	1 / 16

0.	GENERAL	
0.1.	Make (trade name of manufacturer)	DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM
0.2.	Type	FUEL TANK
0.3.	Means of identification of type, if marked on the vehicle/component/separate technical unit (1) (2)	Via Approval Mark
0.3.1.	Location of the approval mark	Top of the Fuel Tank
0.4.	Category of vehicle on which the tank will be installed	O ₃ and O ₄
0.5.	Company name and address of manufacturer	DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM D-100 Karayolu üzeri Düzce Cad. No:99 TR-81750 Çilimli/DÜZCE
0.8.	Name(s) and address(es) of assembly plant(s)	DÜZCE SAĞLAM DEPO- HÜSEYİN SAĞLAM D-100 Karayolu üzeri Düzce Cad. No:99 TR-81750 Çilimli/DÜZCE
1.	GENERAL CONSTRUCTION CHARACTERISTICS	
1.1.	Photographs and/or drawings of a representative vehicle/component/separate technical unit (4)	See Annex 1
3.	PROPULSION ENERGY CONVERTER (38)	
3.2.2.	Fuel	Diesel
3.2.3.	Fuel tank(s)	
3.2.3.1	Service fuel tank(s)	
3.2.3.1.1.	Number and capacity of each tank	200, 300, 400, 450, 500, 600, 650 LT
3.2.3.1.1.1.	Material	ALUMINUM AND STEEL
3.2.3.1.2.	Drawing and technical description of the tank(s) with all connections and all lines of the breathing and venting system, locks, valves, fastening devices	See Annex 1

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3.2.3.1.3.	Drawing clearly showing the position of the tank(s) in the vehicle	N/A
3.2.3.2.	Reserve fuel tank(s)	N/A

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ANNEX 1	Photographs and drawings of a representative separate technical unit	9
ANNEX 2	Photographs and drawings of a fuel tank cap	2
ANNEX 3	Certificates of materials – Steel & Aluminum	3

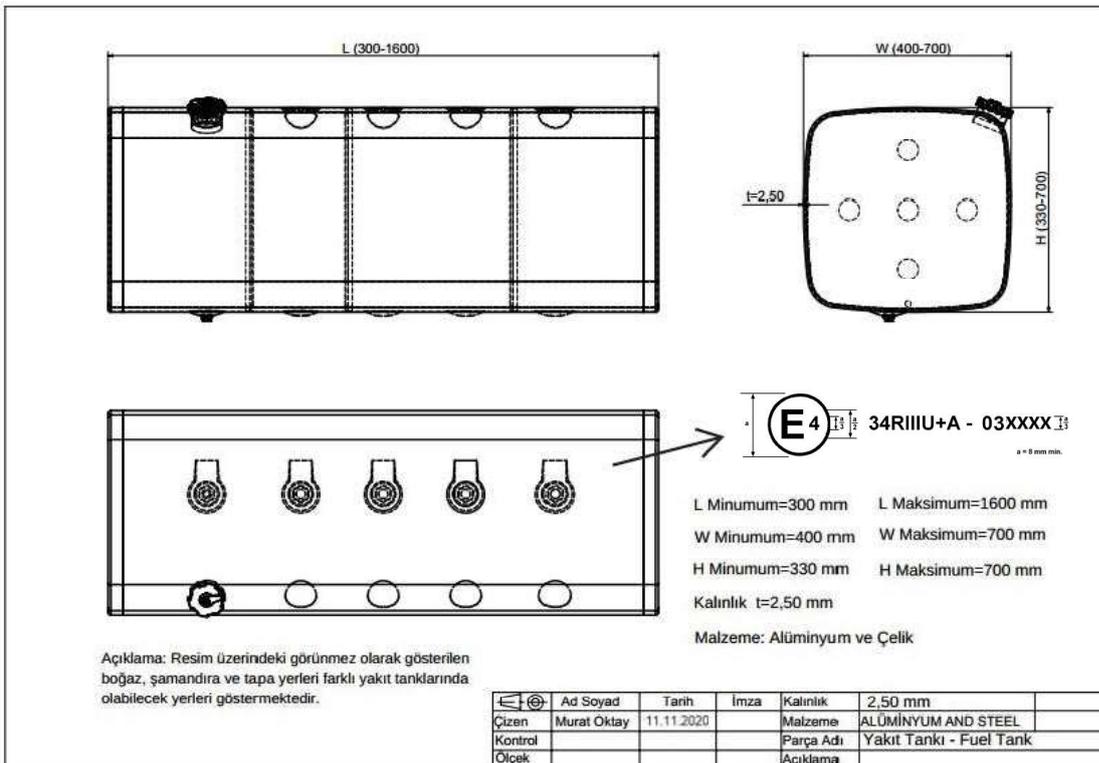
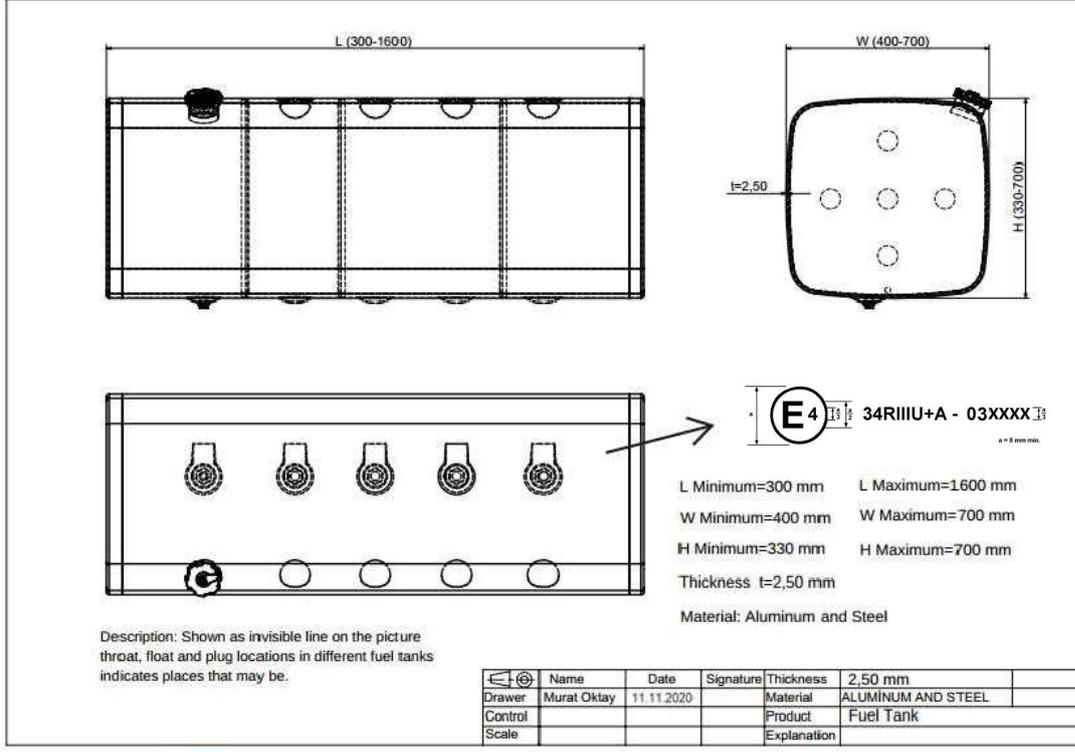
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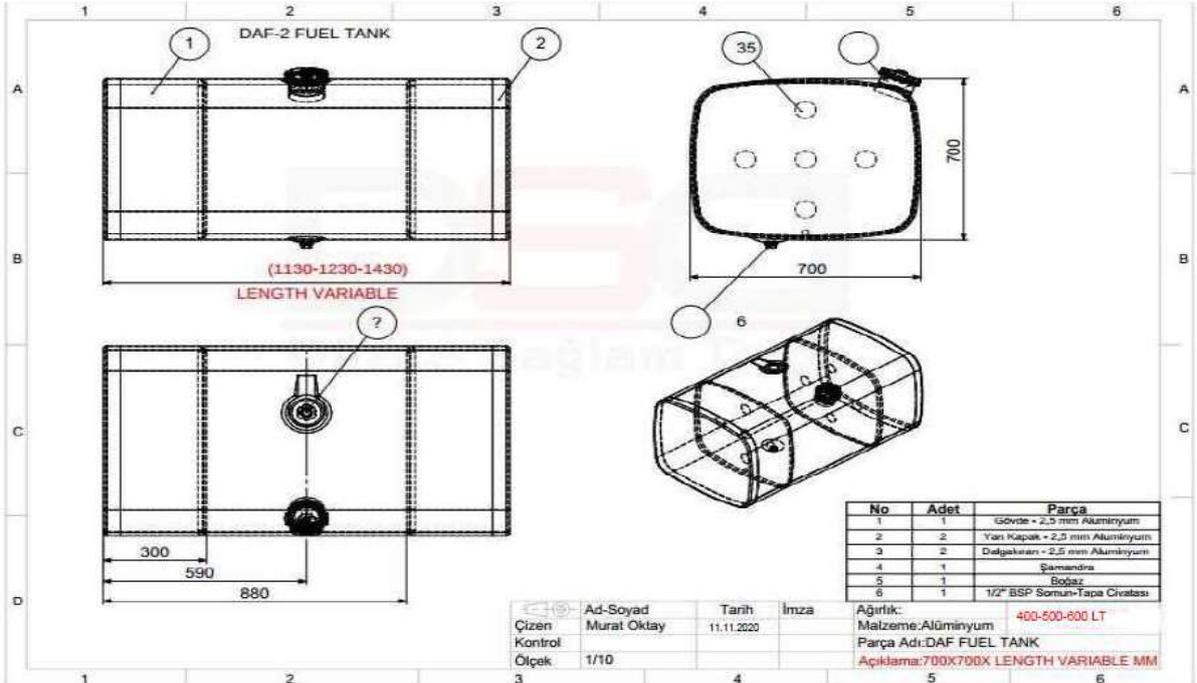
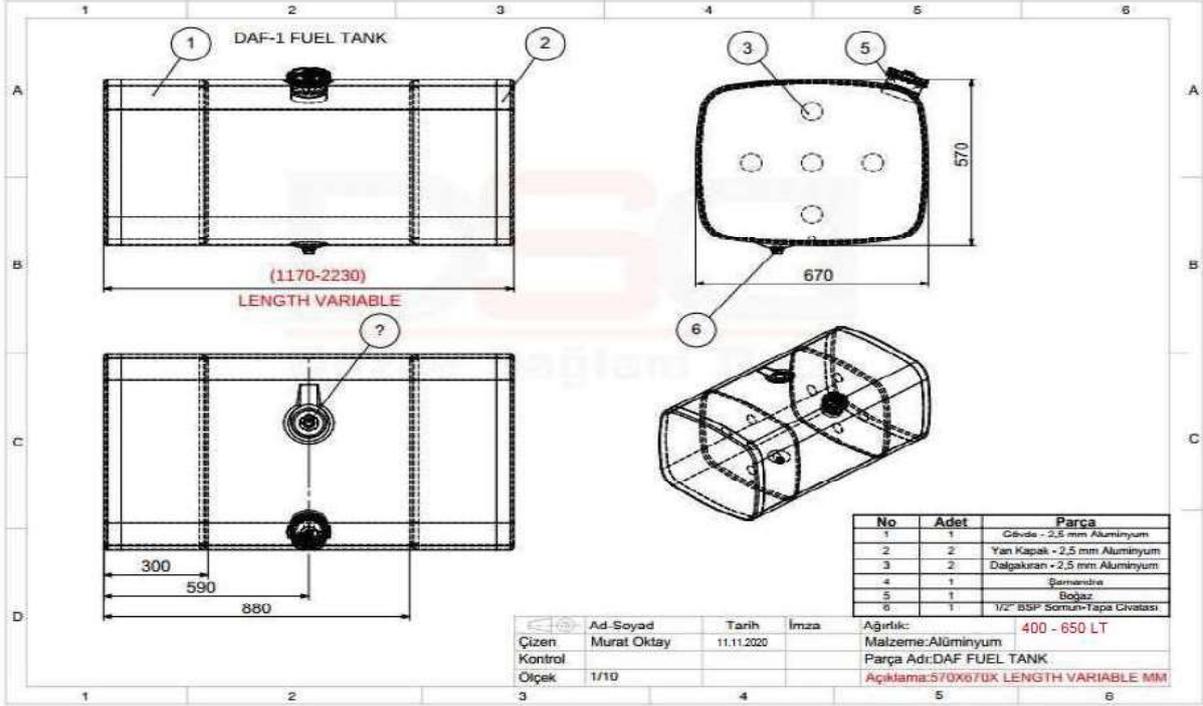
ANNEX 1	Photographs and drawings of a representative separate technical units
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	DAF YAKIT TANKI
	MAN YAKIT TANKI
	MERCEDES YAKIT TANKI
	SCANIA YAKIT TANKI

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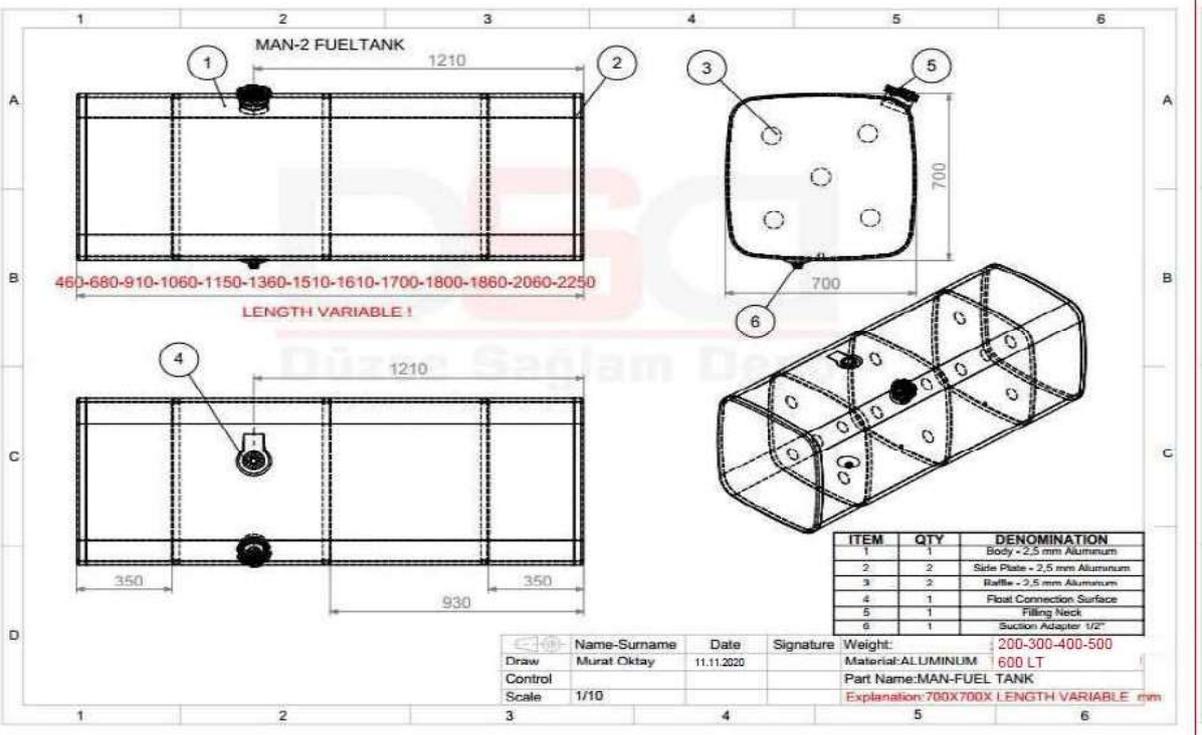
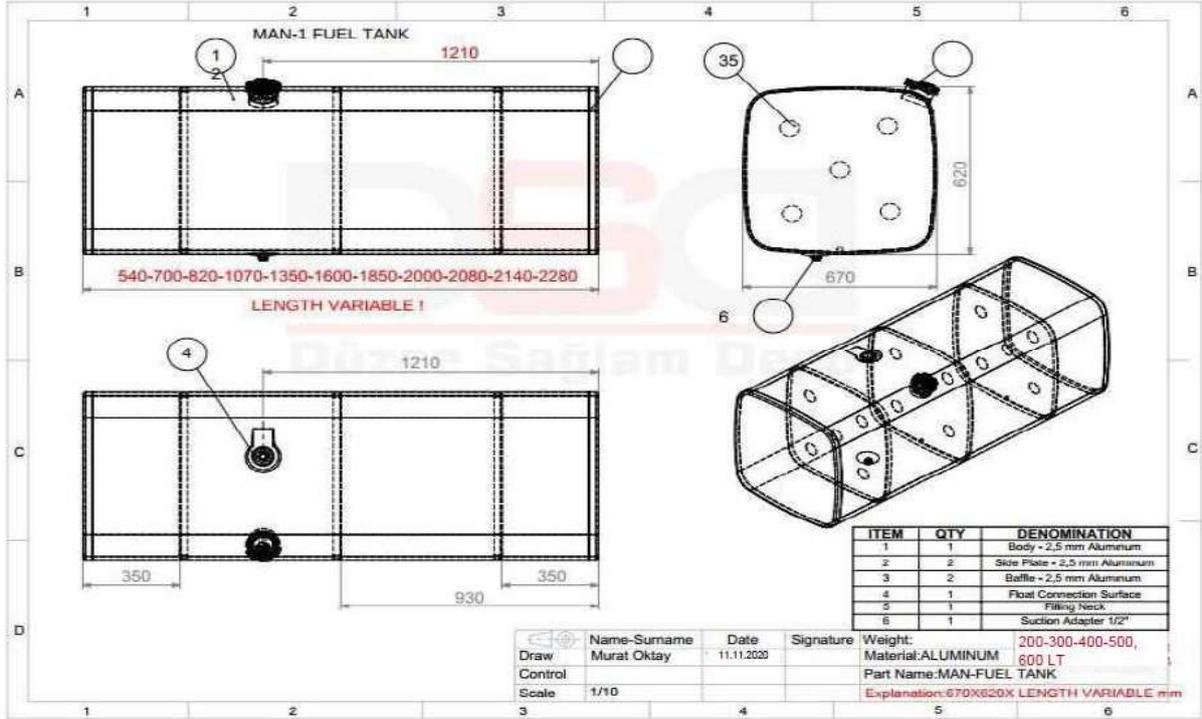
	IVECO YAKIT TANKI
	MITSUBISHI YAKIT TANKI
	TERMOKING YAKIT TANKI

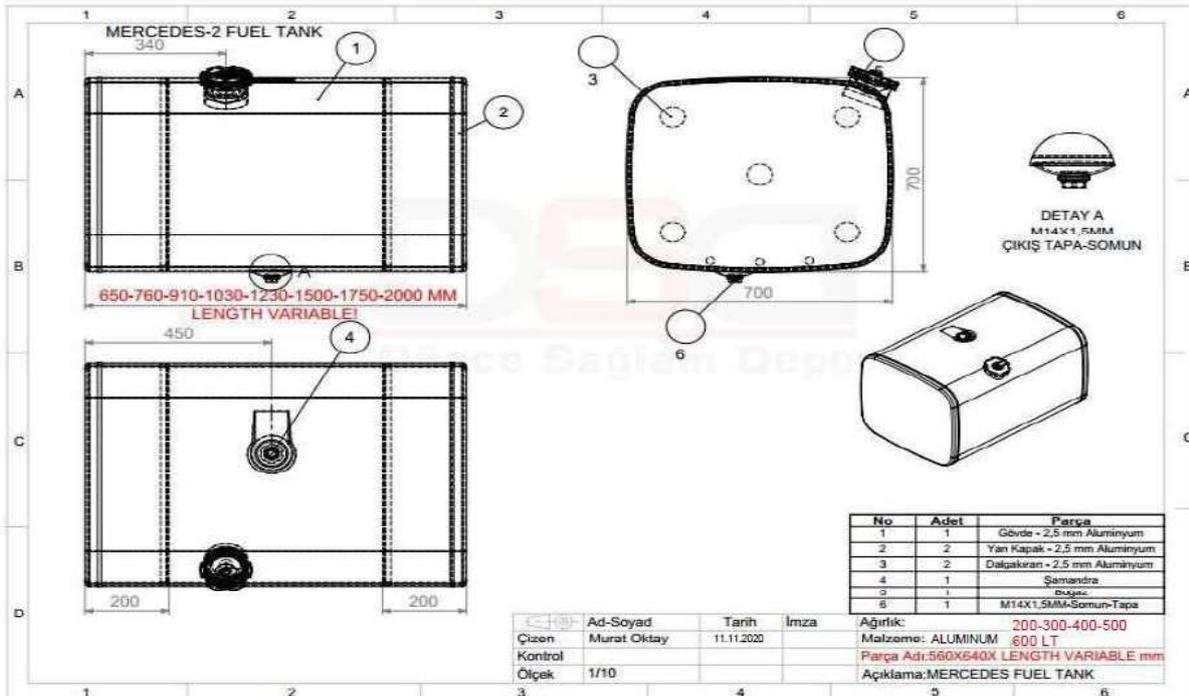
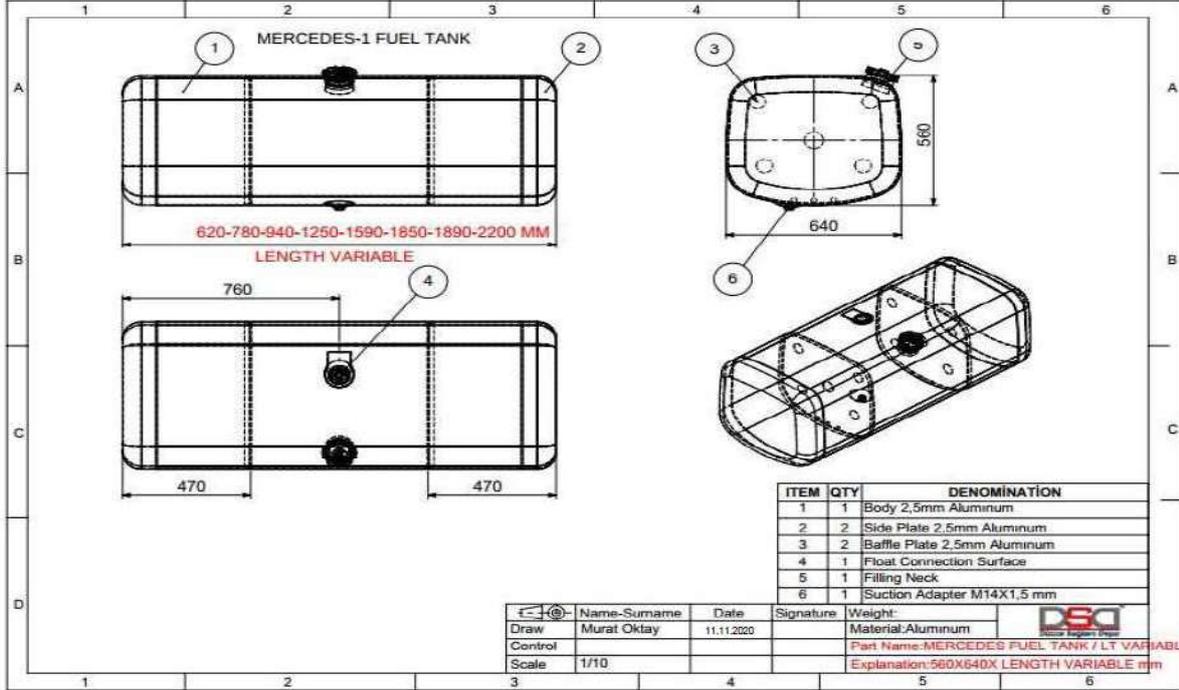


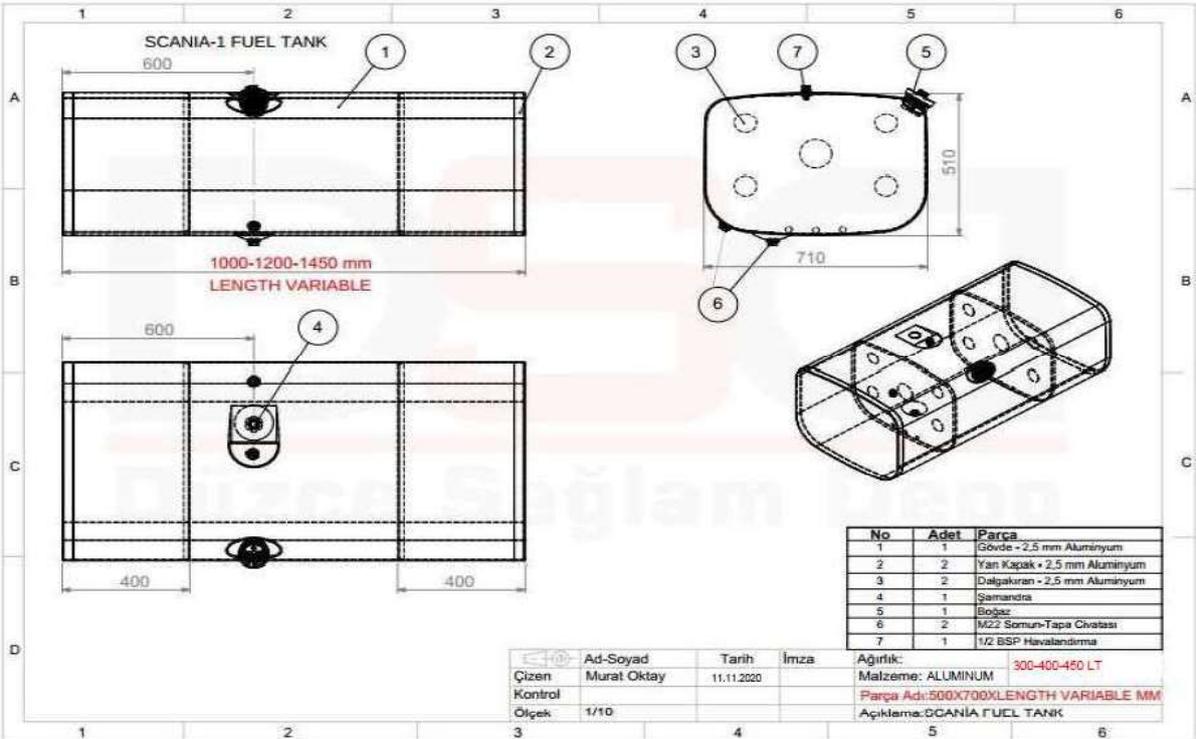
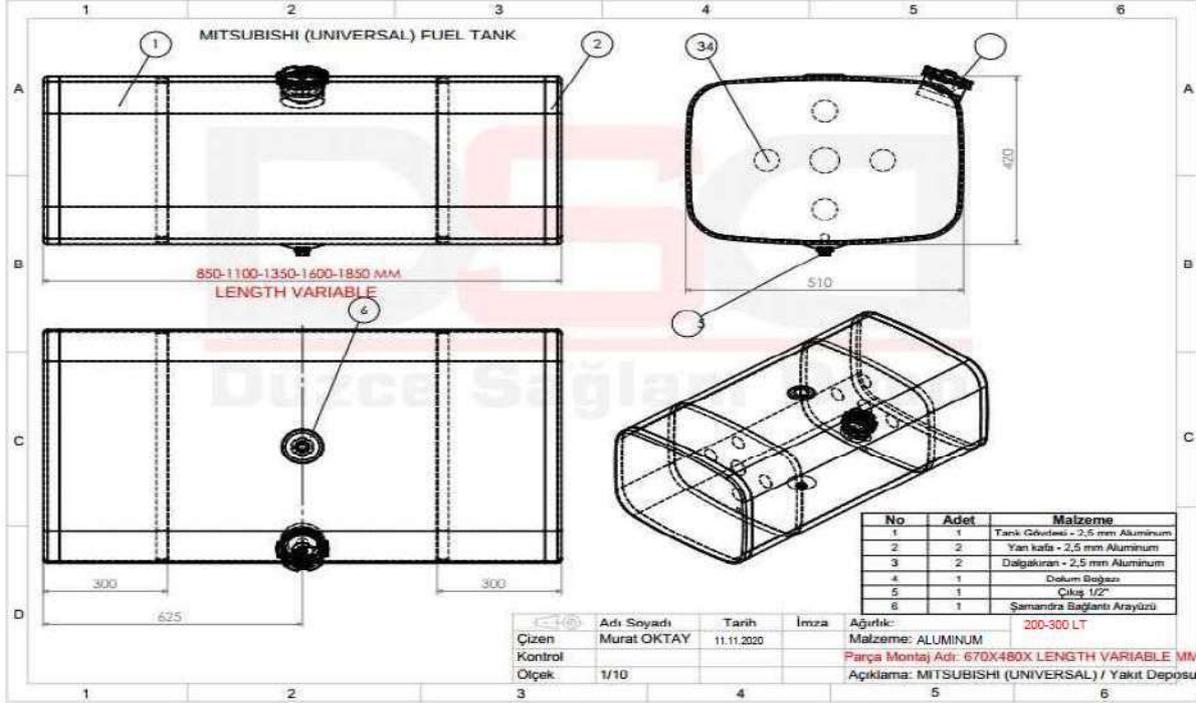


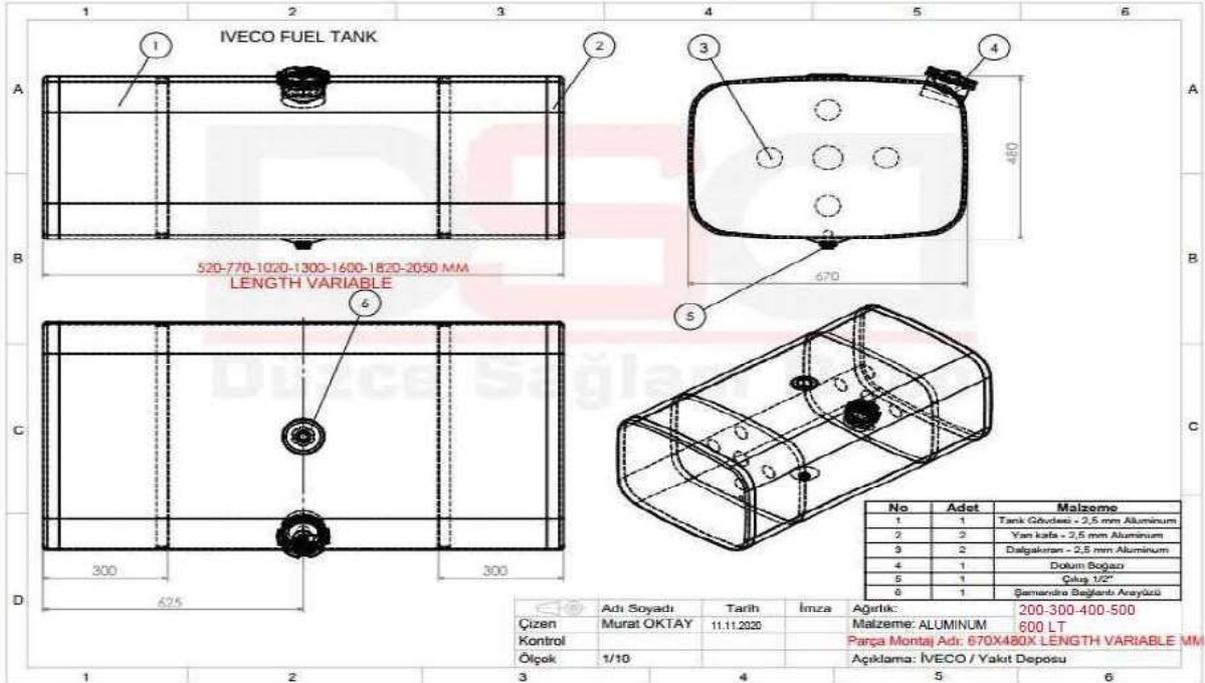
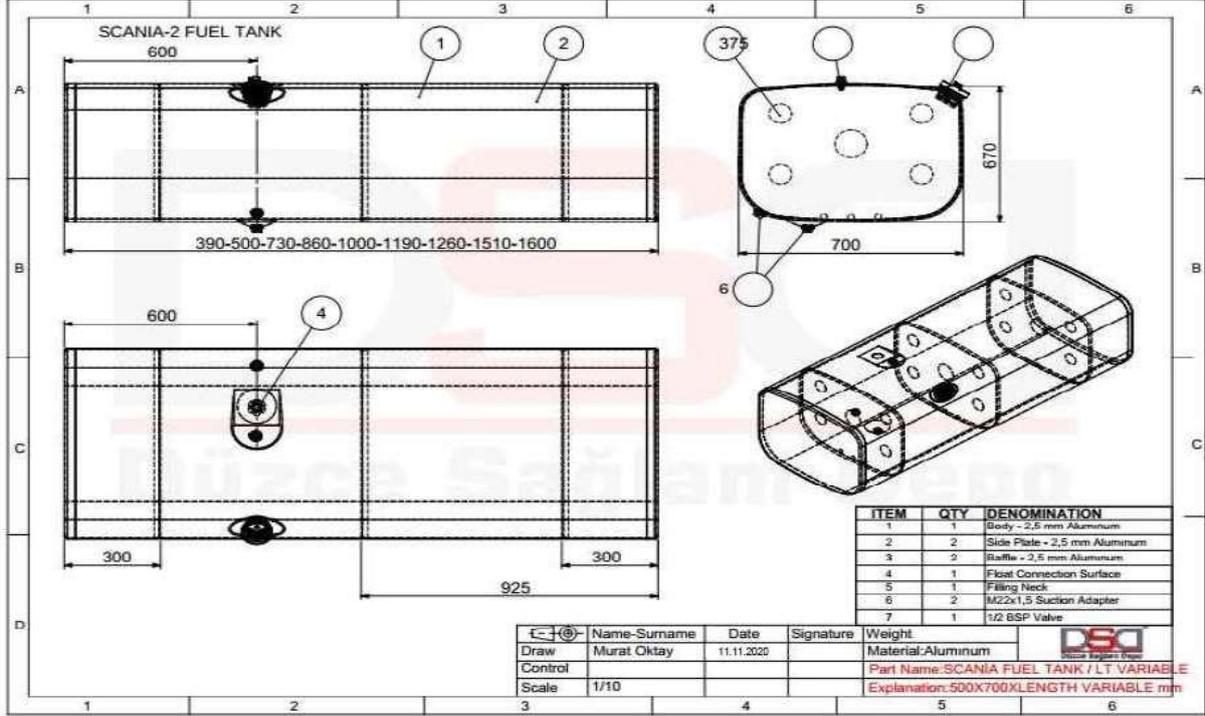
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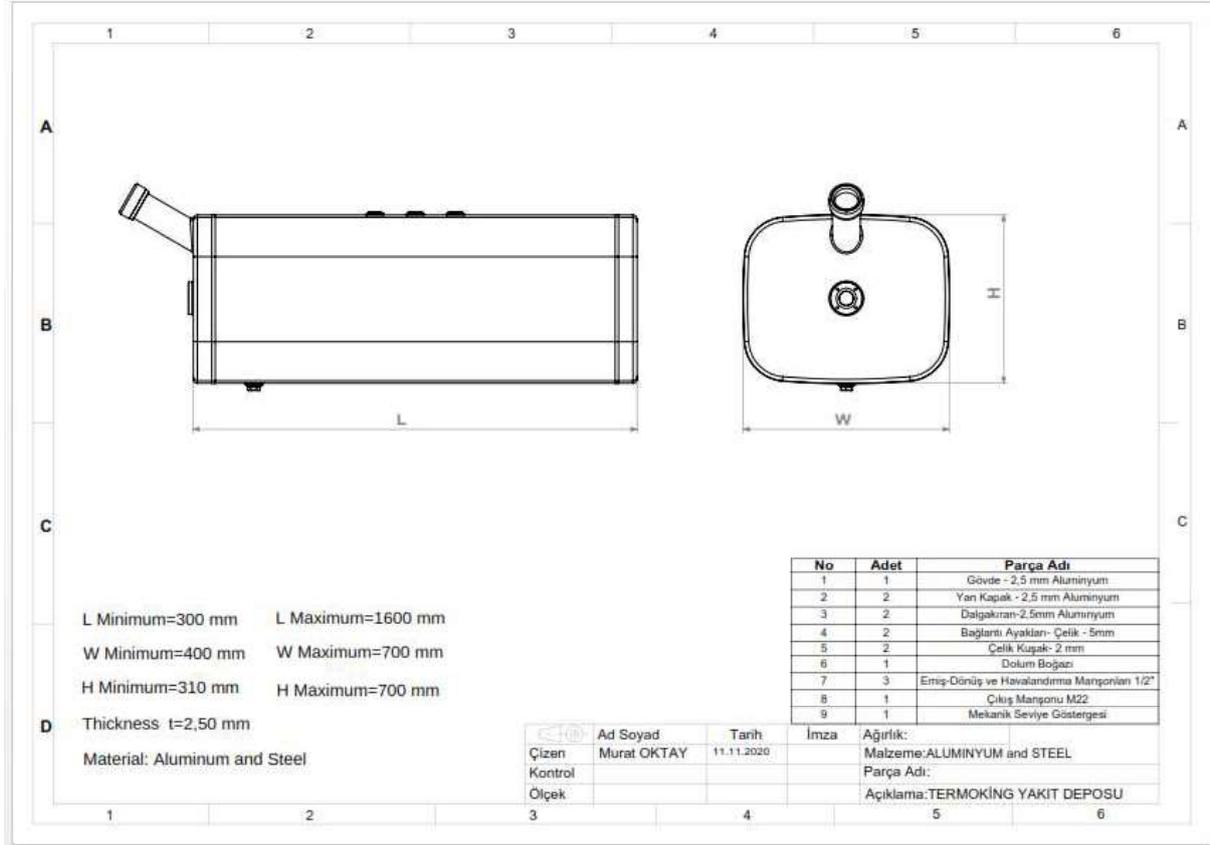
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ANNEX 3	Certificates of Materials – Steel
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ÜRÜN BİLGİLERİ					MEKANİK ÖZELLİKLER															
					NUMUNE YERİ YÖNÜ	ÇEKME TESTİ										BH TESTİ		SERTLİK ÖRT		
						AKMA	CEKME	%	%	n-90	R-90	R Ort	n Ort	n (10-Ag)	n (10-20)	n (4-6)	A / C ORAN		BH Y S	B H
ETİKET NO	TONAJ (KG)	DÖKÜM NO	BOBİN NO / PAKET NO / LEVHA NO	DİLİM ADEDİ	N/M M2	N/MM 2	UZA MA A80	Ag	n-90	R-90	R Ort	n Ort	n (10-Ag)	n (10-20)	n (4-6)	A / C ORAN	BH Y S	B H	B H2	
1200314259 956	12,900	033364	30139723200		BE	255.95	347.16	34												
1200314259 959	13,120	038022	30205008100		BE	255.95	347.16	34												

AE AÇIKLAMALAR

Pcm=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B
 IIW/Ceq=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15 Ceq=C+Mn/6 Ceq=C+(Mn+Si)/6

UCS: 230C*+190S+75P+45Nb-12.35i-5.4Mn-1

AE1: Nb+V+Ti AE2: Cu+Cr+Ni
 AE3: Cr+Cu+Mo+Ni AE4: Cr+Mo+Ni
 AE5: Al/N AE6: Cu+Ni
 AE7: P+S AE8: Si+2.5P
 AE9: Ti/N AE10: Ti/B
 AE11: Mn/Si AE12: Cu+Ni+Cr+Mo+V
 AE13: Mo+Cr AE14: Cr+Cu+Mo
 AE15: Nb+V AE16: Nb+V+Ti+B
 AE17: Nb+Ti AE18: C+P
 AE19: Mn+Cr+Mo AE20: Mn/C
 AE21: 3.4N + 1.5S AE22: Al+Si
 AE23: Mn+Si AE24: Cu+Ni+Mo

AE25: C + (Mn/Si) + (S/P) (Ni/20) (Mo/15) + (Cu/10) (Segregasyon Endeksi)

EREĞLİ DEMİR ve ÇELİK FABRİKALARI T.A.Ş. BU MALZEMENİN BAZIK OKSİJEN METODU İLE YAPILMIŞ OLDUĞUNU VE EN 10130-2006 DC01 (ERDEMİR

6112) KAUDELERİNE UYGUN OLARAK TEST EDİLDİĞİNİ YUKARIDAKİ DEĞERLERİ İLE TEVSİK EDER .

İBRAHİM AKDÜMBEK
 METALURJİ
 LABORATUVARI
 MÜHENDİSİ

SERKAN DİKEÇ
 KALİTE METALURJİ
 MÜDÜRÜ

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ÜRÜN BİLGİLERİ					NUMUNE YERİ YÖNÜ	AKMA	CEKME	% UZAMA
ETİKET NO	TONAJ (KG)	DÖKÜM NO	BOBİN NO / PAKET NO / LEVHA NO	DİLİM ADEDİ				
1200314259 956	12,900	033364	30139723200		BE	255.9 5	347.1 6	3 4
1200314259 959	13,120	038022	30205008100		BE	255.9 5	347.1 6	3 4

AE AÇIKLAMALAR

$P_{cm} = C + Si/30 + Mn/20 + Cu/20 + Ni/60 + Cr/20 + Mo/15 + V/10 + 5B$
 $IIW/C_{eq} = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$ $C_{eq} = C + Mn/6$ $C_{eq} = C + (Mn + Si)/6$
 $UCS = 230C^* + 190S + 75P + 45Nb - 12.3Si - 5.4Mn - 1$
 AE1: Nb+V+Ti AE2: Cu+Cr+Ni
 AE3: Cr+Cu+Mo+Ni AE4: Cr+Mo+Ni
 AE5: Al/N AE6: Cu+Ni
 AE7: P+S AE8: Si+2.5P
 AE9: Ti/N AE10: Ti/B
 AE11: Mn/Si AE12: Cu+Ni+Cr+Mo+V
 AE13: Mo+Cr AE14: Cr+Cu+Mo
 AE15: Nb+V AE16: Nb+V+Ti+B
 AE17: Nb+Ti AE18: C+P
 AE19: Mn+Cr+Mo AE20: Mn/C
 AE21: 3.4N + 1.5S AE22: Al+Si
 AE23: Mn+Si AE24: Cu+Ni+Mo

AE25: $C + (Mn/5) + (5*P) - (Ni/10) - (Mo/15) + (Cu/10)$ (Segregasyon Endeksi)

KİMYASAL BİLEŞİM , DÖKÜM ANALİZİ

DÖKÜM NO	C	Mn	P	S	Si	Al
	%	%	%	%	%	%
033364	0,0 44	0,18 3	0,0 18	0,0 09	0,0 19	0,04 7
038022	0,0 42	0,18 4	0,0 13	0,0 12	0,0 18	0,03 9

EREĞLİ DEMİR ve ÇELİK FABRİKALARI T.A.Ş. BU MALZEMENİN BAZİK OKSİJEN METODU İLE YAPILMIŞ OLDUĞUNU VE EN 10130-2006 DC01 (ERDEMİR 6112) KAİDELERİNE UYGUN OLARAK TEST EDİLDİĞİNİ YUKARIDAKİ DEĞERLERİ İLE TEVSİK EDER .

	INFORMATION DOCUMENT According to ECE R34.03 Prevention of Fire Risks	Document No.	DSD-001
		Issue Date	11.11.2020
		Extension Date	-
		Extension Number	-
TYPE: FUEL TANK		Page	16 / 16

ANNEX 3	Certificates of Materials - Aluminum
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MILL TEST CERTIFICATE
Acc to BS EN 10204/3.1



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Cert No: 1186769

Order No	Ship To Party Name	Destination	Customer's Ref.Nr	Delivery Ntf.Nr	Total Weight
333051	EGE SAGLAM METAL SAN. TIC. LTD. STI	Turkey	.	80677388	662kg/1.459lb

Product List

Order Line	Product Description	Part No	Alloy	Temper	Thickness (mm)	Width (mm)	Length (mm)	Coil No	Heat No
1	ALUM.SHEETS HI-MG	76061292	5754	H22	2,5000	1.000,00	1.860,00	200689601A02	20101670

Chemical Analysis

Heat No	Silicon(Si)	Iron(Fe)	Manganese(Mn)	Magnesium(Mg)	Copper(Cu)	Titanium(Ti)	Chromium(Cr)	Zinc(Zn)
/Unit	%	%	%	%	%	%	%	%
20101670	0,092	0,348	0,319	3,257	0,037	0,012	0,051	0,031

Mechanical Properties

Coil No	Tensile Strength (Rm)	Yield Strength (Rp0,2)	Elongation (A50mm)
/Unit	N/mm ²	N/mm ²	%
200689601A02	241,5	136,1	24,3