

Report of Conformity

20-TUV-ATR-COC-0044

ISO 3449

Earth-moving machinery — Falling-object protective structures — Laboratory tests and performance requirements

According to

Test standard

ISO 3449:2005

Earth-moving machinery — Falling-object protective structures — Laboratory tests and performance requirements

Dated – 2009-05-01

--

Manufacturer ALPIN MAKİNE SAN.VE TIC. A.Ş.
Type SKID STEER LOADER M60 CAB

1. IDENTIFICATION

1.1 Machine(s)

1.1.1	Type	SKID STEER LOADER M60 CAB
1.1.2	Manufacturer	ALPIN MAKİNE SAN.VE TIC. A.Ş.
1.1.3	Model	M60 (M49 may be for the future)
1.1.4	Serial Number (if any)	Not applicable
1.1.5	Machine Frame Part Number	Not applicable

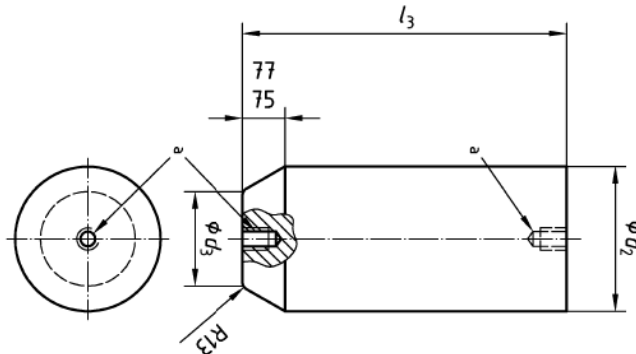
1.2 FOPS

1.2.1	Manufacturer	ALPIN MAKİNE SAN.VE TIC. A.Ş.
1.2.2	Model	M60 (M49)
1.2.3	Serial Number (if any)	Not applicable
1.2.4	FOPS (may include ROPS) part number	PRTM60T1

2. INFORMATION OF THE TEST FACILITY

2.1 Drop test object

2.1.1	Performed test level	Level II
2.1.2	Mass (kg)	227
2.1.3	Fall height (m)	5,21 min.
2.1.4	Dimensions of the case specimen (sketch optional)	



Manufacturer ALPIN MAKINE SAN.VE TIC. A.Ş.
Type SKID STEER LOADER M60 CAB

2.1.5	Documentation of impact point (s) showing the impact with respect to the DLV.	See Annex 1
2.2	Photos	
2.2.1	One photo each of the drop test specimen and the test equipment before the beginning of the test.	See test photos
2.2.2	Additional photographs, if necessary, to document the effects of impact of the case on the top and bottom of the protective structure (FOPS) after the test (s).	See test photos
2.3	Test results	
2.3.1	Energy imparted to the drop test object without causing penetration of any part of the FOPS structure into the DLV nor penetration of the FOPS by the drop test object: ____ J.	Fulfilled Impact point 01:11.668 J
2.3.2	Material criteria	
2.3.2.a	The test was performed with FOPS and machine frame members soaked to °C or verification of the Charpy V-notch impact strength requirements for FOPS and ROPS (or FOPS cover) structural metallic members. OR	Not applicable
2.3.2.b	Proof of Charpy V-notch Impact Strength Requirements for FOPS (or FOPS Covers) and ROPS metal components was performed on a test specimen:	Not applicable
2.3.2.c	Verification of the property class requirements arrangement before application of drop test(s). for bolts and nuts (see 6.3.2).	Not applicable
6.3.2	Bolts and nuts used to attach the FOPS (or FOPS cover and its supporting structure) to the machine frame and to connect structural parts to the FOPS cover shall be property class 8.8 or 10.9 bolts (see ISO 898-1) and 8 or 10 property class nuts (ISO 898-2).	Not applicable
2.4	Each protective structure (FOPS) must be marked	
2.4.1	If a construction both the Requirements as a protective structure against falling objects (FOPS) as well as a rollover protection structure (ROPS), the ROPS marking must be made in accordance with ISO 3471.	Fulfilled

Manufacturer Type	ALPIN MAKINE SAN.VE TIC. A.Ş. SKID STEER LOADER M60 CAB
--------------------------	--

9 ISO 3471 Item 9 Labelling of ROPS

9.1 General

ROPS meeting the requirements of this International Standard shall be labelled according to 9.2 and 9.3. FOPS information may be included on the label. Fulfilled

9.2 Label specifications

The label shall be of a permanent type and permanently attached to the structure. Fulfilled

The label shall be located on the structure so that it can be easily read and is protected from weather defacing. Fulfilled

9.3 Label Content

The label shall indicate the following

- | | | |
|-------|---|----------------|
| a | the business name and full address of the ROPS manufacturer, and, where applicable, his authorized representative; | Fulfilled |
| b | designation of the ROPS, if any | Not applicable |
| c | mandatory marking, if applicable | Fulfilled |
| d | designation of series or type/model of machine for which the ROPS is intended | Not applicable |
| e | serial number, if any | Not applicable |
| f | year of construction, i.e. year in which the manufacturing process was completed | Not applicable |
| g | maximum machine mass, <i>m</i> , for which the ROPS structure meets all of the performance requirements of this International Standard; | Not applicable |
| h | International Standard number(s) for which the structure meets all of the performance requirements; | Fulfilled |
| i | other such information as is deemed appropriate (e.g.installation, repair or replacement information). | Not applicable |
| 2.4.2 | The marking must be durable and permanently attached to the bodywork. | Fulfilled |
| 2.4.3 | Labeling and content must be large enough to be readable. | Fulfilled |

Report of Conformity

20-TUV-ATR-COC-0044

TÜV AUSTRIA TURK
BELGELENDİRME EĞİTİM VE GÖZETİM
HİZMETLERİ LTD. ŞTİ.
Çamlık Mah. İkbal Cad. Dinç Sk. No:28 PK:34774
Ümraniye/ İSTANBUL – TURKEY
www.tuvaustriaturk.com



Manufacturer ALPIN MAKINE SAN.VE TIC. A.Ş.
Type SKID STEER LOADER M60 CAB

2.4.4	The marking must be affixed to the protective structure in such a way that it can be easily read and protected against weather conditions.	Fulfilled
2.4.5	The marking must contain at least the following information:	
a	The name and address of the FOPS manufacturer;	Fulfilled
b	Type number of the FOPS, if available;	Not applicable
c	type of machine, type or serial number (s) for which the FOPS design is designed;	Fulfilled
d	the number (s) of the International Standard (s) whose requirements the FOPS structure meets indication of the achieved requirement level (national requirements may be included);	Fulfilled
e	Year of manufacture of the FOPS delivered separately for attachment to the machine.	Not applicable
2.4.6	A combined FOPS / ROPS label must contain information from a) and c) of this section.	Not applicable
2.4.7	The manufacturer may provide further information that is considered useful (e.g. assembly, repair and maintenance)	Fulfilled

CALIBRATION EQUIPMENTS		
Equipment	Serial / Certificate no.	Calibration Due Date
Tape measure	AUTO-003	17.02.2020
Laser measure	AUTO-087	09.03.2020

LIST OF ANNEXES		
Annex	No of pages	Subject
1	20	Information document (Document no: M60_F01, Date: 06.11.2020)

MANUFACTURER'S DOCUMENTATION	
Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale.	Fulfilled

Report of Conformity

20-TUV-ATR-COC-0044

TÜV AUSTRIA TURK
BELGELENDİRME EĞİTİM VE GÖZETİM
HİZMETLERİ LTD. ŞTİ.
Çamlık Mah. İkbal Cad. Dinç Sk. No:28 PK:34774
Ümraniye/ İSTANBUL – TURKEY
www.tuvaustriaturk.com



Manufacturer
Type

ALPIN MAKINE SAN.VE TIC. A.Ş.
SKID STEER LOADER M60 CAB

TESTING PHOTOS

Before



After



Manufacturer ALPIN MAKINE SAN.VE TIC. A.Ş.
Type SKID STEER LOADER M60 CAB

10. Test place and date

Tuv Austria Türk Test Merkezi

TR-Kocaeli

10.11.2020

11. Final Confirmation

As the result of inspections of “**ALPIN MAKINE SAN.VE TIC. A.Ş.**” sample product, it has been confirmed that the selected vehicle from the approved information document and this technical report fulfilled the requirements mentioned at the ISO 3449:2005 Earth-moving machinery -Falling-object protective structures- Laboratory tests and performance requirements.

This report can not be multiplied without written approval of TUV AUSTRIA TURK.
This report is not valid without security hologram in this page.
This technical report consists of 7 pages.

TR- Istanbul

Özlem OK
A Check

İsa ÖZKAN

Q Check



Abdullah ATEŞ

Recognized
Expert/Signature

15.12.2020

