

TRUESDAIL LABORATORIES, INC.



CHEMISTS - METALLURGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

4101 N. FIGUERDA STREET
LOS ANGELES 90068
AREA CODE 213 • 225-1564
CABLE: TRUELABS

CLIENT Roofmasters, Inc.
750 Monterey Pass Road
Los Angeles, California 90063
Attention: Mr. Deryl S. Yundt

DATE November 5, 1981

P.O. NO. 7471

MATERIAL Hoisting wheel assembly

LABORATORY NO. M1641

SPECIFICATION Client's verbal instructions

REPORT OF MECHANICAL TEST												
IDENTIFICATION NUMBER	ACTUAL SIZE	ACTUAL AREA	WELD STRENGTH:		TENSILE STRENGTH:		ELONGATION		REDUCTION OF AREA		CODE	NO.
			ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	IN. IN.	PER CENT	REDUCED DIMENSION	PER CENT		
A1					9,150							
A2					9,180							
A3					11,600							
MAXIMUM REQUIREMENTS												
MINIMUM REQUIREMENTS												

YIELD STRENGTH DETERMINED BY:

SPEED OF TESTING: 0.1 in/min.

HEAT TREATED AS FOLLOWS:

FRACTURE CODE:

- (F) Indicates flaw.
- (G) Indicates fracture outside gauge mark.
- (g) Indicates fracture through gauge mark or within specimen width of gauge marks.

(*)

REMARKS The assemblies were tested by placing the safety hook in a clevis pin and loading the wheel with a 3/8" cable.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

REPORT OF MECHANICAL TEST												
IDENTIFICATION NUMBER	ACTUAL SIZE	ACTUAL AREA	YIELD STRENGTH:		Shear STRENGTH:		ELONGATION		REDUCTION OF AREA		CODE	NO.
			ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	IN. IN.	PER CENT	REDUCED DIMENSION	PER CENT		
P1	.624	.612			37,200	60,800						
P2	.625	.613			37,500	61,200						
P3	.625	.613			34,000	55,500						
MAXIMUM REQUIREMENTS												
MINIMUM REQUIREMENTS												

YIELD STRENGTH DETERMINED BY:
 SPEED OF TESTING: 0.1 in/min.
 HEAT TREATED AS FOLLOWS:
 MATERIAL: axles (shear pin)

SPECIFICATION:
 Client's verbal instructions

FRACTURE CODE:
 (F) Indicates flaw.
 (G) Indicates fracture outside gauge mark.
 (g) Indicates fracture through gauge mark or within specimen width of gauge marks.
 (*)

REMARKS The axles were tested in a double horizontal shear.

REPORT OF MECHANICAL TEST												
IDENTIFICATION NUMBER	ACTUAL SIZE	ACTUAL AREA	YIELD STRENGTH:		Compressive Strength		ELONGATION		REDUCTION OF AREA		CODE	NO.
			ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	IN. IN.	PER CENT	REDUCED DIMENSION	PER CENT		
W1					4,400							A
W2					15,600							B
W3					4,450							A
MAXIMUM REQUIREMENTS												
MINIMUM REQUIREMENTS												

fax to Corson
213-334-2928

YIELD STRENGTH DETERMINED BY:
SPEED OF TESTING: 0.1 in/min.
HEAT TREATED AS FOLLOWS: ,
MATERIAL: bare wheels (pulley)

SPECIFICATION:
Client's verbal instructions

FRACTURE CODE:
(F) Indicates flaw.
(G) Indicates fracture outside gauge mark.
(g) Indicates fracture through gauge mark or within specimen width of gauge marks.
(*)

REMARKS
Procedure A - spokes of the wheel were at 45° with compression plattens.
Procedure B - spokes of the wheel were normal or parallel to the compression plattens.

REPORT OF MECHANICAL TEST


IDENTIFICATION NUMBER	ACTUAL SIZE	ACTUAL AREA	YIELD STRENGTH:		TENSILE STRENGTH:		ELONGATION		REDUCTION OF AREA		CODE	NO.
			ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	ACTUAL LOAD POUNDS	POUNDS PER SQ. IN.	IN. IN.	PER CENT	REDUCED DIMENSION	PER CENT		
R					9,100							
H1					14,900							
H2					14,650							
MAXIMUM REQUIREMENTS												
MINIMUM REQUIREMENTS												

YIELD STRENGTH DETERMINED BY:
 SPEED OF TESTING:
 HEAT TREATED AS FOLLOWS:
 MATERIAL: 3' x 3/4" manila rope with #24 safety hooks

SPECIFICATION:
 Client's verbal instructions

FRACTURE CODE:
 (F) Indicates flaw.
 (G) Indicates fracture outside gauge mark.
 (g) Indicates fracture through gauge mark or within specimen width of gauge marks.
 (*)

REMARKS

Respectfully submitted,
 TRUESDAIL LABORATORIES, INC.

 Donald D. Dixon, P. E.
 Chief Metallurgist