

# National Fleet Testing Services, Inc.

utestwithme@gmail.com

912 Coyote Drive Junction City, Kansas 66441  
(913) 634-7329

## Report of Inspection

### ANNUAL SAFETY INSPECTION FOR AERIAL DEVICES AND DIGGER DERRICKS

In accordance with  
OSHA 1910.67, ANSI A92.2, ANSI A10.31

Customer	<u>KSU/ SALINA</u>	Inspection Date	<u>March 4, 2016</u>
Location	<u>SALINA, KS.</u>	Unit Number	<u>05894</u>
Manufacturer	<u>HIRANGER</u>	Project Number	<u>KSUSALINA05894-030416</u>
Model Number	<u>5FI-48PBI</u>	Serial Number	<u>088634299003</u>

#### Type of Equipment

Single Bucket	<input checked="" type="checkbox"/>
Double Bucket	<input type="checkbox"/>
Digger Derrick	<input type="checkbox"/>

Single Bucket Material Handler	<input type="checkbox"/>
Double Bucket Material Handler	<input type="checkbox"/>
Boom Truck/Crane	<input type="checkbox"/>

Inspected By Michael Clark

National Fleet Testing Services, Inc.

Customer	KSU/ SALINA
Date	March 4, 2016
Unit No	05894

## Defect Classification

- Category I** Those defects that are designated most serious. Defects in this category cause free-fall or free-rotation type incident and are related directly to the operational safety of the device. We have recommended that these be repaired as soon as possible.
- Category II** Those defects that could lead to a downtime or a more costly repair.
- Category III** Those defects that can be scheduled into a maintenance program and repaired at a later date; not an operational or safety related item
- Category IV** There were no defects found at the time of the inspection.

## DISCLAIMER

*The information provided in this report is the result of the specific testing and inspection procedures conducted by an authorized National Fleet Testing Services, Inc. contractor on the equipment and identified herein, as limited by the scope of work authorized by the customer (the "Test Results"). The Test Results reflect on the condition of the components tested or inspected within the scope of work authorized. We have reviewed neither the maintenance records or the actual use of the equipment before or after the date of the testing or inspection. NO ATTEMPT HAS BEEN MADE AND NO INFORMATION IS RENDERED WITH RESPECT TO ANY CONDITIONS OF THE EQUIPMENT OR ANY COMPONENT OTHER THAN AS EXPRESSLY STATED IN THE WRITTEN TEST RESULTS. SPECIFICALLY, BUT WITHOUT LIMITATIONS, NO INFORMATION, TESTING OR INSPECTION SERVICES ARE RENDERED CONCERNING EQUIPMENT DESIGN, SUITABILITY OF THE EQUIPMENT FOR ANY PARTICULAR PURPOSE OR THE FUTURE SERVICABILITY OF THE EQUIPMENT. THE TEST RESULTS SHOULD NOT BE CONTRUED AS STATEMENT THAT THE EQUIPMENT IS SAFE OR SERVICEABLE.*

The information provided in this report is not a substitute for proper use, maintenance, modification, inspections and repair of the equipment which remains the sole responsibility of the owner/operator of the equipment, who shall assure safe operation of the equipment within its intended limitation. Furthermore, nothing in the Test Results should be construed as a recommendation for corrective action and National Fleet Testing Services, Inc. or any of its authorized contractors has not and will not supervise corrective action of any condition found to exist, as such is the sole responsibility of the owner/operator and is hereby expressly excluded from the scope of work performed by an authorized National Fleet Testing Services, Inc. contractor. The Test Results are intended solely for informational purposes of the customer and should not be utilized or relied upon by any other person.



K8111

Customer	KSU/ SALINA
Date	March 4, 2016
Unit No.	05894

## INSPECTION SUMMARY

UNIT DISPOSITION:

Pre-Service		
In-Service		X
Collision		
Before Repair		
After Repair		
During Repair		
Overhaul		
Other		

### INSPECTION METHODS:

Passed:

A.E./ Load Test	X	X
Dielectric Test	X	X
Magnetic Particle	X	X
Ultrasonics Inspection	X	X
Visual Inspection	X	X
Liner(s)	X	X
Hot Sticks		
Other		

### Deficiency Summary

[illegible]

Michael Clark  
Inspector(s):

Customer Representative

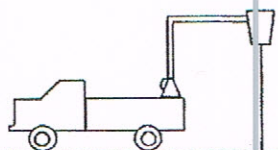
Confidential

National Fleet Testing Services, Inc.  
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Date March 4, 2016

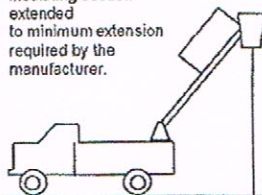
Unit No: 05894

# **DIELECTRIC TEST REPORT FORM**



Boom Height 25'  
Boom over side of Truck ☐  
Boom over rear of Truck ☒

Insulating section extended to minimum extension required by the manufacturer.



Boom Height recorded for consistency or duplication of test results.

Company <u>KSU/ SALINA</u>	Location <u>SALINA, KS.</u>	
Manufacturer <u>HIRANGER</u>	Type of Equipment <u>SB</u>	
Model <u>5FI-48PBI</u>	Weather Condition <u>CLEAR</u>	
Serial No. <u>088634299003</u>	Humidity <u>5%</u>	AC <input type="checkbox"/> am <input checked="" type="checkbox"/>
Date of Mfr. <u>1987</u>	Test Voltage: DC <input checked="" type="checkbox"/>	Time <u>9:00</u> pm <input type="checkbox"/>
<p>Raise voltage 0 to <u>KV</u> in 30 seconds, Record Reading A; Hold Voltage at <u>KV</u> for 3 minutes, Record B.</p>		
<b>UPPER BOOM/THIRD STAGE</b> Test Voltage <u>100</u> KV Reading A <u>2uA</u> Reading B <u>2uA</u> Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	<b>CHASSIS INSULATING SYSTEM</b> Test Voltage <u>50</u> KV Reading A <u>20uA</u> Reading B <u>20uA</u> Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	<b>MINIMUM EXTENSION</b> Test Voltage <u>N/A</u> KV Reading A _____ Reading B _____ Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<b>BASKET LINER(S) TEST</b> <b>Liner #1</b> Id No.: <u>Liner 1</u> Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/> <b>Liner #2</b> Id No.: <u>N/A</u> Pass <input type="checkbox"/> Fail <input type="checkbox"/>	<b>HYDRAULIC OIL BREAKDOWN</b> Average Hydraulic Breakdown Voltage <u>N/A</u> KV <i>Any Readings under 18 KV are unacceptable.</i> Pass <input type="checkbox"/> Fail <input type="checkbox"/>	<b>JIB TEST (SPLD Only)</b> <b>Jib #1</b> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Reading A _____ Reading B _____ <b>Jib #2</b> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Reading A _____ Reading B _____
Boom Condition	<b>Dielectric Test Results</b> Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	

- |  |  |
|--|--|
| 1. Area Roped /Coned <input checked="" type="checkbox"/>               | 6. Liner/Tools removed and replaced <input type="checkbox"/>                     |
| 2. Tire / Outrigger pads in place <input type="checkbox"/>             | 7. Sticker/Stamp applied to unit, liner, jib <input checked="" type="checkbox"/> |
| 3. Visual inside boom complete <input type="checkbox"/>                | 8. All personnel jibs removed and tested <input type="checkbox"/>                |
| 4. Upper Controls extended <input type="checkbox"/>                    | 9. Transferable tip in place on 3rd stage <input type="checkbox"/>               |
| 5. DT unit ground within barricade <input checked="" type="checkbox"/> | 10. Number 2 jumper wire from first stage to turret <input type="checkbox"/>     |
|  | 11. Fire extinguisher in place by equipment <input checked="" type="checkbox"/>  |

Comments: \_\_\_\_\_

Inspector: MC

This is to certify that the above test procedures, where applicable, comply with the requirements of the American National Standard for vehicle-mounted elevating and rotating work platforms, ANSI A92.2-1969, 1979, 1990.

NOTICE: The above tests do not guarantee the continuing insulation of the tested areas. It shall be the user's responsibility to maintain the insulating qualities of the aerial device through periodic testing.



K8117

INVOICE

MARCH 09, 2016

INVOICE #: 8115391

BILL TO: 100491  
KANSAS STATE UNIV. -SALINA  
2409 SCANLAN  
SALINA, KS 67401

SHIP TO:  
\* SAME \*

PHONE: 785/826-2600

CUST PO#: 1610560

UNIT TYPE	MAKE/MODEL	SERIAL#	UNIT#	CPL INJ
BUCKET TRUCK				

FITTING LEAKS, CENTER SPOOL VALVE LEAKS  
SHOP LABOR 270.00  
REPLACED BOTH FITTINGS IN LIVE SWIVEL FOR THE BOOM ROTATION.  
HAD TROUBLE GETTING THE OLD ONES OUT BECAUSE THEY WERE GLUED IN.  
ONE FITTING BROKE OFF AND HAD TO EASY OUT IT. TOOK BOOTS LOOSE  
ON THE CONTROL VALVE AND FOUND ALL THREE HANDLES LEAKING.  
REMOVED THE HANDLES, RESEALED AND PUT BACK TOGETHER.

PART NUMBER	PARTS DESCRIPTION	AMOUNT
	TOTAL PARTS .....	72.90

\*\*\*\*\* JOB SUMMARY \*\*\*\*\*  
LABOR ..... 270.00  
PART SALES ..... 72.90

NET 10TH

INVOICE TOTAL ... \$342.90

K8117

## I N V O I C E

MARCH 03, 2016

INVOICE #: 8115134

BILL TO: 100451  
 KANSAS STATE UNIV. -SALINA  
 2409 SCANLAN  
 SALINA, KS 67401

SHIP TO:

\* SAME \*

PHONE: 785/826-2600

CUST PO#: 1610560

UNIT TYPE	MAKE/MODEL	SERIAL#	UNIT#	CPL INJ
BUCKET TRUCK	IRANGERSFI40PBI			

REPLACE UPPER AND LOWER HOSES IN BOOM. REPLACE OIL AND FILTER.  
 SHOP LABOR

1,350.00

PART NUMBER	PARTS DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL AMOUNT
H61135	UPPER BUNDLE HOSES	1	822.03	822.03
H64184	LOWER BUNDLE HOSES	1	922.50	922.50
H14544	COUPLING	8	8.91	71.28
H10896	NUT & SLEEVE ASSY	16	1.26	20.16
431256	CONNECTOR	2	6.43	12.86
SHIP	TRUCK FREIGHT	1	108.59	108.59
MISC	OIL FILTER CFI 85551	1	23.00	23.00
0250-01	1/4" HEAT SHRINK TUBING-	108	.25	27.00
MS3367-4-0	NYLON CABLE TIE, 4 INCH	30	.25	7.50
MS3367-2-0	NYLON CABLE TIE 14 INCH	10	.35	3.50
CFI 85551	OIL FILTER	1	23.00	23.00
15 AIRCRAFT OIL	AIRCRAFT OIL (BUCKET)	4	252.50	1,010.00

## \*\*\*\*\* JOB SUMMARY \*\*\*\*\*

LABOR ..... 1,350.00

PART SALES ..... 3,052.22

NET 10TH

I N V O I C E T O T A L ...\$4,402.22

K8117

INVOICE

AUGUST 06, 2015

INVOICE #: S111657

BILL TO: 100491  
KANSAS STATE UNIV. -SALINA  
2409 SCANLAN  
SALINA, KS 67401

SHIP TO:  
\* SAME \*

PHONE: 785/826-2600

CUST PO#: 1610084

UNIT TYPE	MAKE/MODEL	SERIAL#	UNIT#	CPL INJ
BOOM TRUCK REP				

REPAIR BOOM TRUCK

SHOP LABOR

1,020.00

REMOVED LIVE SWIVEL. TORE DOWN SWIVEL AND INSPECTED PARTS. HONED  
OUT TUBE DUE TO MINOR DAMAGE. CLEANED, RESEALED AND REASSEMBLED  
INSTALLED SWIVEL BACK INTO UNIT. REPLACED ALL HOSES ON LOWER SIDE  
REMOVED MOTOR FROM SWING. TORE DOWN MOTOR AND INSPECTED PARTS.  
FOUND THAT THE SHAFT AND BEARING WERE BAD IN THE MOTOR. CLEANED  
MOTOR AND REPLACED SHAFT AND BEARING. RESEALED AND REASSEMBLED  
MOTOR. INSTALLED MOTOR BACK ONTO UNIT. GREASED GEAR BOX.  
FILLED WITH OIL AND RAN UNIT. NO LEAKS FOUND.

PART NUMBER	PARTS DESCRIPTION	AMOUNT
TOTAL PARTS .....		856.25

\*\*\*\*\* JOB SUMMARY \*\*\*\*\*  
LABOR ..... 1,020.00  
PART SALES ..... 856.25

NET 10TH

INVOICE TOTAL ...\$1,876.25