

GENERAL NOTES

1. REFERENCE TO ANY SPECIFICATION HEREIN SHOULD BE CONSTRUED AS REFERENCE TO THE ISSUE IN EFFECT ON THE DATE OF INVITATIONS FOR BIDS.
2. WHERE CONFLICT EXISTS BETWEEN THIS STANDARD AND ANY OTHER MILITARY SPECIFICATION, THE REQUIREMENTS OF THIS STANDARD SHALL APPLY.
3. THE TIRE QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF MIL-T-5041.

TIRE NOTES

THE TIRE SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-T-5041 AND SHALL COMPLY WITH THE REQUIREMENTS LISTED BELOW:

| SIZE CM (IN) | PLY RATING | INFLATION PRESSURE PA (PSI) (RATED) | BEAD WIDTH CM (IN) (MAX) | WEIGHT KG (LBS) (MAX) | STATIC UNBALANCE CM-G (IN-OZ) (MAX) | MOLD SKID TREAD DEPTH CM (IN) (MIN) | STATIC BURST LOAD PRESSURE PSI (MIN) |
|------------------------------------|---------------|--|-----------------------------------|-----------------------------|--|---|--|
| | | | | | | | |
| 76.2x29.21-36.83 (30x11.5-14.5) | 26 | 1.83x10 ⁶ (265) | 6.98 (2.75) | 36.29 (80) | 48.26 (19) | RIB .66 (.26) | 12,066 (26,600) |

1. DYNAMIC TESTING - THE FOLLOWING REQUIREMENTS SUPERSEDE THE DYNAMIC TEST REQUIREMENTS OF MIL-T-5041, HOWEVER THE CRITERIA SPECIFIED THEREIN FOR INSPECTION OF THE TEST ARTICLE AFTER TEST SHALL BE MET. WITH THE TIRE INFLATED TO GIVE MEASURED DEFLECTION EQUAL TO THE DEFLECTION MEASURED ON A FLAT PLATE WHEN LOADED WITH A STATIC LOAD OF 12,066⁺⁰⁹¹ KILOGRAMS (26,600⁺²⁰⁰ POUNDS) AND INFLATED TO 1.83x10⁶ PASCAL (265 PSI). EACH OF TWO TIRES SHALL SATISFACTORILY WITHSTAND 20 CYCLES OF TEST "A", 5 CYCLES OF TEST "B", 25 CYCLES OF TEST "C" 3 CYCLES OF TEST "D", 25 CYCLES OF TEST "E", 25 CYCLES OF TEST "E", WITHOUT EVIDENCE OF FAILURE.

A. NORMAL TAKE-OFF - THE TIRE SHALL BE TAXIED ON A FLYWHEEL FOR 3,200 METERS (10,500 FEET) AT 55.6 KILOMETERS/HR (30 KNOTS) AND 12,066⁺⁰⁹¹ KILOGRAMS (26,600⁺²⁰⁰ POUNDS) LOAD. UPON COMPLETION OF THE TAXI ROLL, THE FLYWHEEL SHALL IMMEDIATELY BEGIN ACCELERATING AND THE LOAD SHALL BE VARIED TO OBTAIN A TAKE-OFF IN ACCORDANCE WITH FIGURE 3.

B. TAKE-OFF AT 1,524 METERS (5,000 FEET) ALTITUDE ON A HOT DAY - THE TIRE SHALL BE TAXIED ON A FLYWHEEL FOR 3,200 METERS (10,500 FEET) AT 55.6 KILOMETER/HR (30 KNOTS) AND 12,066 KILOGRAMS (26,600 POUNDS) LOAD. UPON COMPLETION OF THE TAXI ROLL THE FLYWHEEL SHALL IMMEDIATELY BEGIN ACCELERATING AND THE LOAD SHALL BE VARIED TO OBTAIN A TAKE-OFF IN ACCORDANCE WITH FIGURE 4.

C. LANDING-WITH THE TIRE INFLATED TO THE SAME PRESSURE USED FOR TESTS "A" AND "B", THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING WITH A PERIPHERAL SPEED SHOWN IN FIGURE 5 AS THE LANDING SPEED. THE FLYWHEEL SPEED AND THE TIRE LOADING SHALL BE CONTROLLED TO PRODUCE A LANDING AS SHOWN IN FIGURE 5. WHEN THE SPEED HAS DECREASED TO 74.1 KILOMETERS/HR (40 KNOTS), THIS SPEED SHALL BE MAINTAINED TO TAXI THE TIRE FOR 3,200 METERS (10,500 FEET) WITH A LOAD OF 9,934⁺⁰⁹¹ KILOGRAMS (21,900⁺²⁰⁰ POUNDS). AFTER COMPLETING THE TAXI THE FLYWHEEL SHALL BE STOPPED AND THE LOAD SHALL BE MAINTAINED ON THE TIRE FOR A MINIMUM OF FIFTEEN (15) MINUTES.

D. TAXI OUT, REJECT, AND RETURN TO STATION - THE TIRE SHALL BE TAXIED ON A FLYWHEEL FOR 11,340 KILOGRAMS (25,000 FEET) AT 55.6 KILOMETERS/HR (30 KNOTS) AND A LOAD OF 12,066⁺⁰⁹¹ KILOGRAMS (26,600⁺²⁰⁰ POUNDS). AFTER COMPLETING THE TAXI THE FLYWHEEL SHALL BE STOPPED AND THE LOAD SHALL BE MAINTAINED ON THE TIRE FOR A MINIMUM OF FIFTEEN (15) MINUTES.

varch 16 1983

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APPROVED

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|---|--|-------------------|
| P.A. 70 Other Cust 99 | TITLE TIRE - PNEUMATIC TYPE VIII 30x 11.5 - 14.5 / 26 PR | MILITARY STANDARD |
| | | MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES | SHEET 1 OF 7 |

THIS MILITARY STANDARD IS APPROVED FOR USE BY (OO-ALC/MMEDO) AND IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

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E. TAXI TO SIMULATE SIDE LOAD DURING TURNING- THIS TEST SHALL CONSIST OF TAXI AT 55.6 KILOMETERS/HR (30 KNOTS) WITH THE TIRE LOADED IN A MANNER TO DUPLICATE THE LOADINGS OBTAINED DURING A .25G TURN. THE DISTANCE, VERTICAL AND SIDE LOADS SHALL BE AS SPECIFIED FOR EACH CONDITION. THE LOADING MAY BE ACCOMPLISHED BY ROLLING THE WHEEL AT A CAMBER OR YAW ANGLE RELATIVE TO THE DYNAMOMETER, HOWEVER, VERIFICATION OF THE SPECIFIED LOADINGS IS REQUIRED.

E₁ - TAXI - SIDELOAD ACTING INBOARD (25 CYCLES)

(1) LAND TIRE ON FLYWHEEL WITH A PRESELECTED CHAMBER OR YAW ANGLE WHICH WILL GIVE THE REQUIRED LOADING.

(2) INCREASE THE LOADING UNTIL THE TIRE IS LOADED WITH A RADIAL LOAD (IN THE WHEEL PLANE) OF 14,276 KILOGRAMS (31,473 POUNDS) AND A SIDE LOAD (PERPENDICULAR TO THE WHEEL PLANE) OF 3,572 KILOGRAMS (7874 POUNDS) ACTING INBOARD (14°). MAINTAIN THIS LOAD FOR THE REMAINDER OF THE CYCLE.

(3) UNLAND THE TIRE WHEN A DISTANCE OF 244 METERS (800 FEET) HAS BEEN COMPLETED WITH A FULL LOAD.

E₂ - TAXI - SIDE LOAD ACTING OUTBOARD (25 CYCLES) SAME AS E₁ EXCEPT WITH A SIDE LOAD ACTING OUTBOARD.

2. THE TIRE SHALL NOT EXCEED THE MAXIMUM GROWN AND THROWN DIMENSIONS AS SHOWN BY FIGURE 1. PHOTOGRAPHIC PROOF OF ENVELOPE COMPLIANCE SHALL BE OBTAINED:

(a) PRIOR TO START OF TEST, BUT AFTER TIRE HAS BEEN INFLATED TO RATED PRESSURE FOR 24 HOURS

(b) AFTER FIVE (5) CYCLES OF TEST "A"

(c) AFTER EACH TEN (10) CYCLES OF TEST THEREAFTER

(d) AFTER COMPLETION OF TESTING

3. THE TREAD PATTERN SHALL HAVE A MINIMUM OF THREE AND A MAXIMUM OF FIVE GROOVES. THESE GROOVES SHALL BE CONTINUOUS AND CIRCUMFERENTIAL. ALL GROOVES SHALL BE WITHIN THE CONTACT AREA OF THE STATIC LOAD FOOTPRINT TAKEN AT 60% OF THE MAXIMUM STATIC LOAD AND RATED INFLATION PRESSURE. A FULL SIZE TIRE FOOTPRINT SHALL BE TAKEN AT RATED INFLATION PRESSURE AND 60% OF THE MAXIMUM STATIC LOAD AND SUBMITTED IN THE QUALIFICATION TEST REPORT. THE MOLD GROOVE WIDTH SHALL BE A MINIMUM OF .64 CENTIMETERS (.25 INCHES) MEASURED AT 50% OF THE MOLD SKID DEPTH. THE MAXIMUM CENTER RIB WIDTH OF THE UNINFLATED TIRE SHALL NOT EXCEED 6.35 CENTIMETERS (2½ INCHES). THE INFLATED TIRE DIMENSIONS SHALL MEET THE REQUIREMENTS OF FIGURE 2.

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| P.A. Other Cust | 70 99 | TITLE TIRE - PNEUMATIC TYPE VII 30x 11.5 - 14.5 / 26 PR | MILITARY STANDARD MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES. | SHEET 2 OF 7 | |

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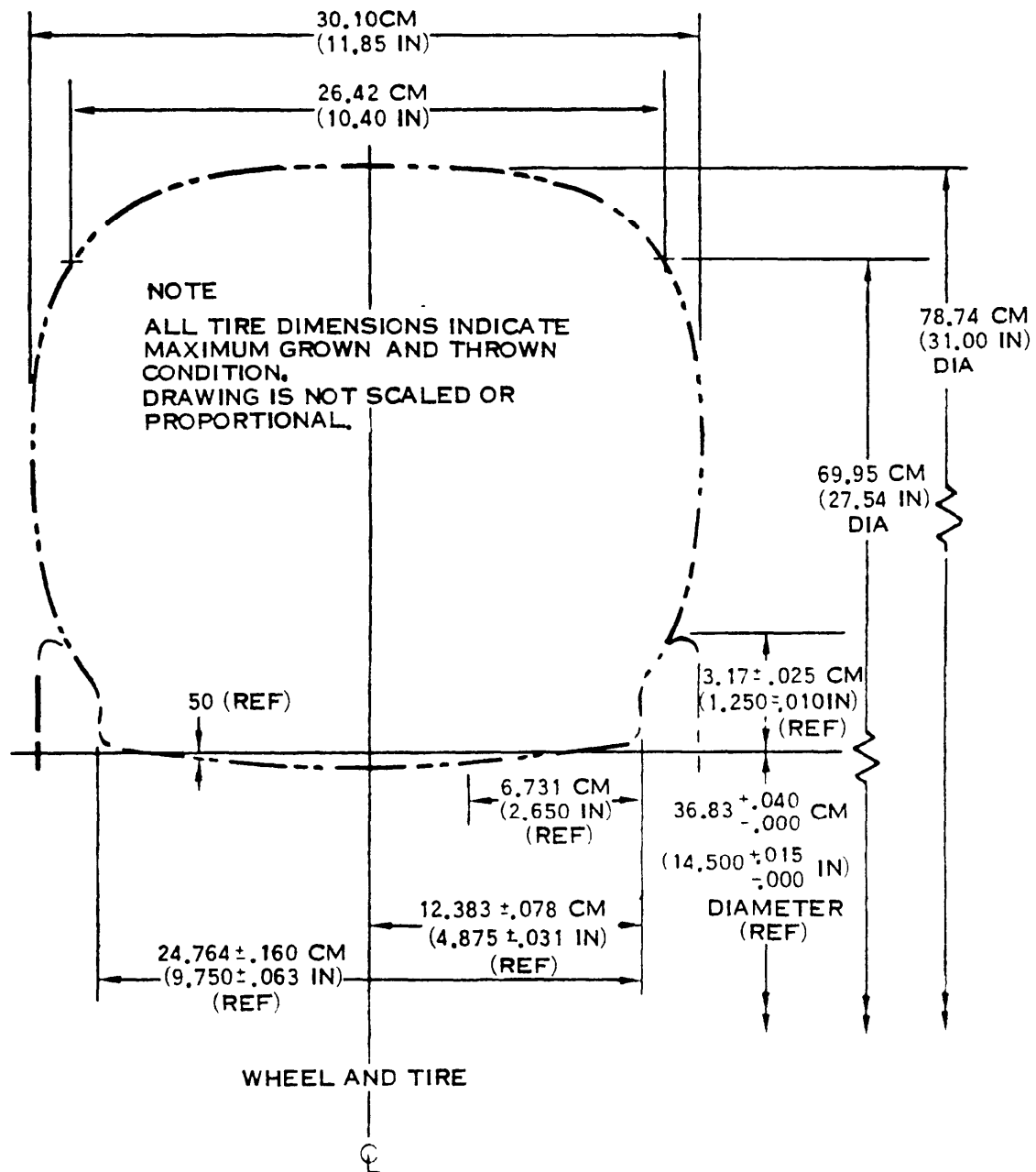
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FIGURE 1

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|---|--|--|
| P.A. 70 Other Cust 99 | TITLE TIRE- PNEUMATIC TYPE VIII 30x11.5-14.5/ 26 PR | MILITARY STANDARD MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES | SHEET 3 OF 7 |

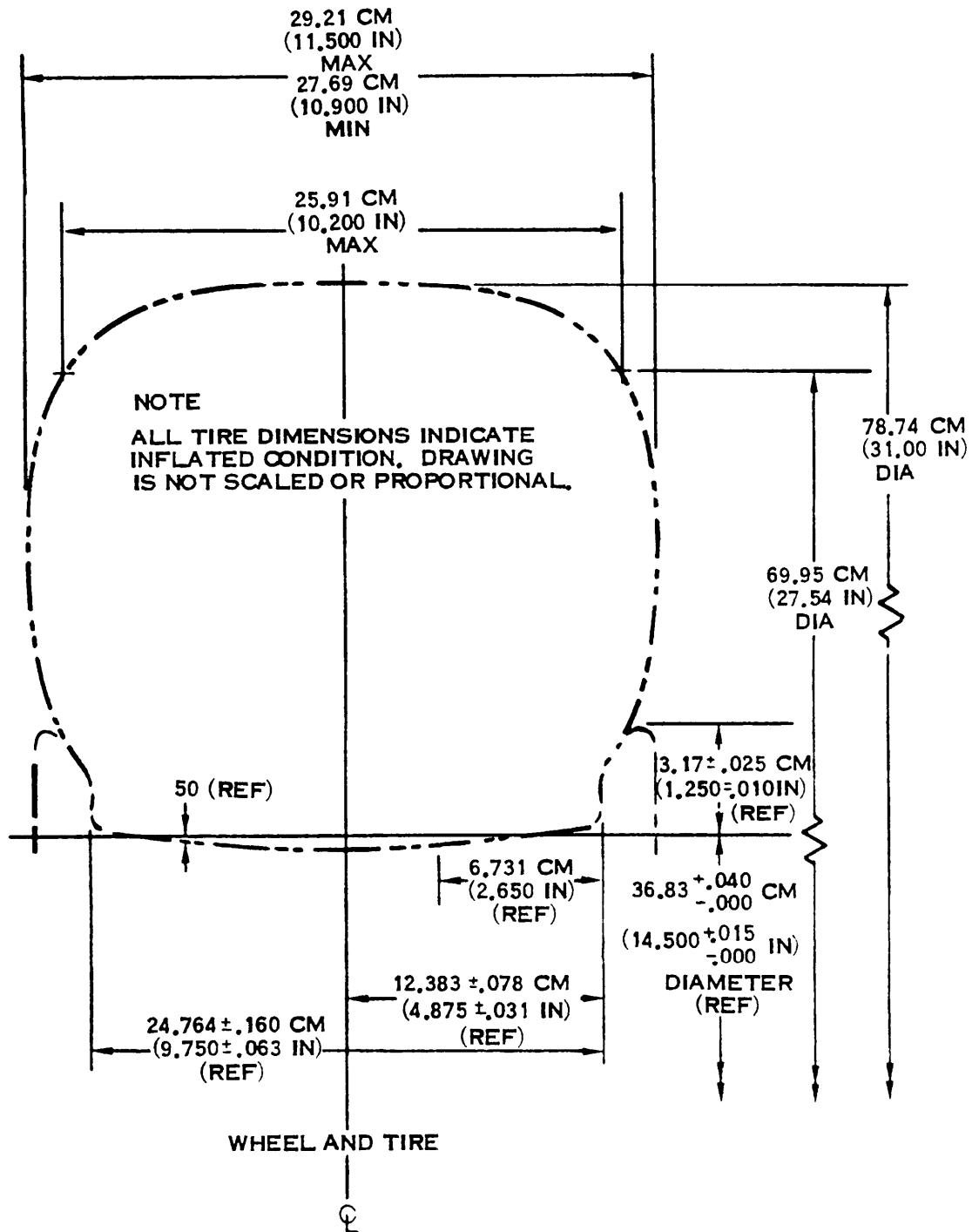
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FIGURE 2

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|---|---|--|
| P.A. 70 Other Cast 99 | TITLE TIRE - PNEUMATIC TYPE VIII 30x11.5-14.5/26PR | MILITARY STANDARD MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES | SHEET 4 OF 7 |

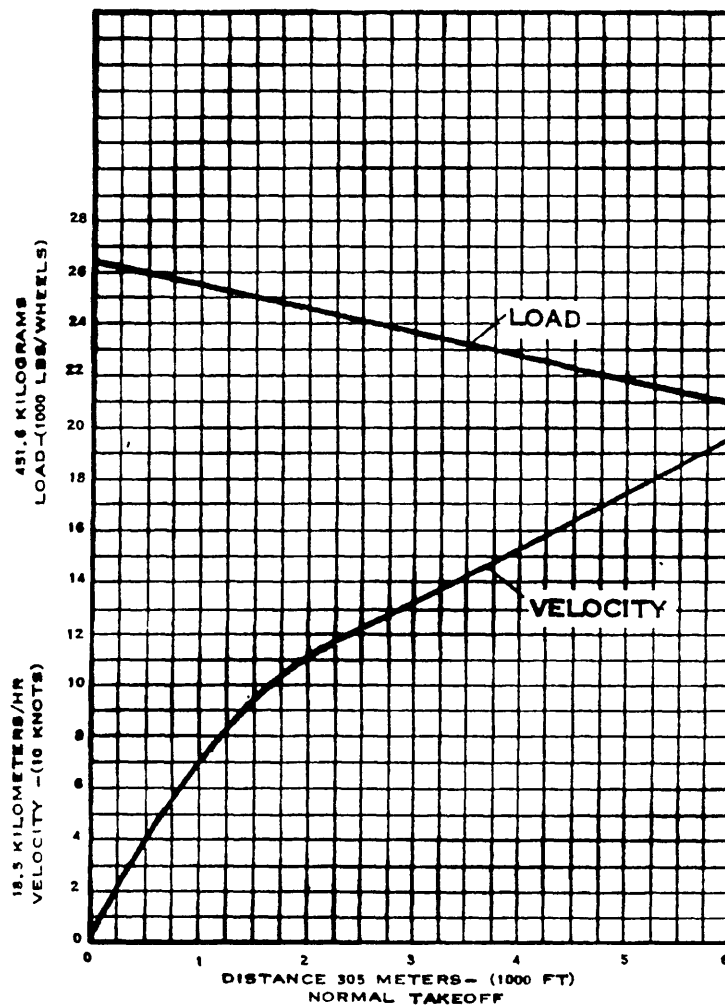
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FIGURE 3

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| | | |
|---|--|-------------------|
| P.A. 70 Other Cost 99 | TITLE TIRE-PNEUMATIC TYPE VIII 30x11 5-14 5 / 26 PR | MILITARY STANDARD |
| | | MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES: | SHEET 5 OF 7 |

DD FORM 672-1 (Limited coordination)

EDITION OF 1 SEP 57 MAY BE USED

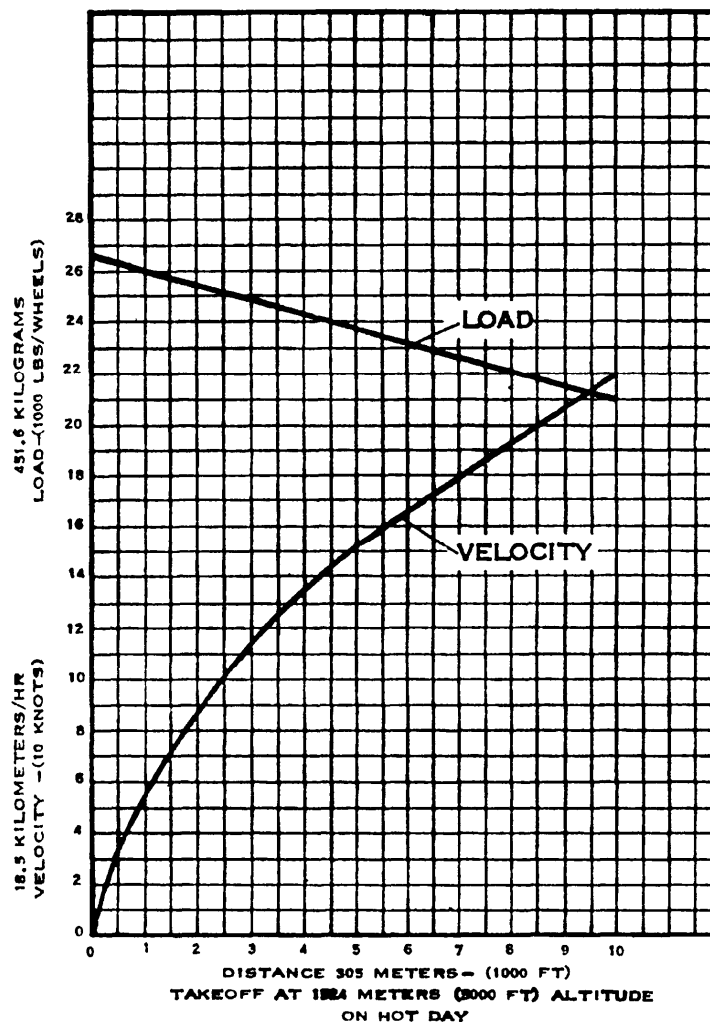
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FIGURE 4

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Other Cust
99TITLE
TIRE - PNEUMATIC
TYPE VIII
30x11.5-14.5/ 26PR

MILITARY STANDARD

MS 21781(USAF)

PROCUREMENT SPECIFICATION
MIL-T-5041

SUPERSEDES.

SHEET 6 OF 7

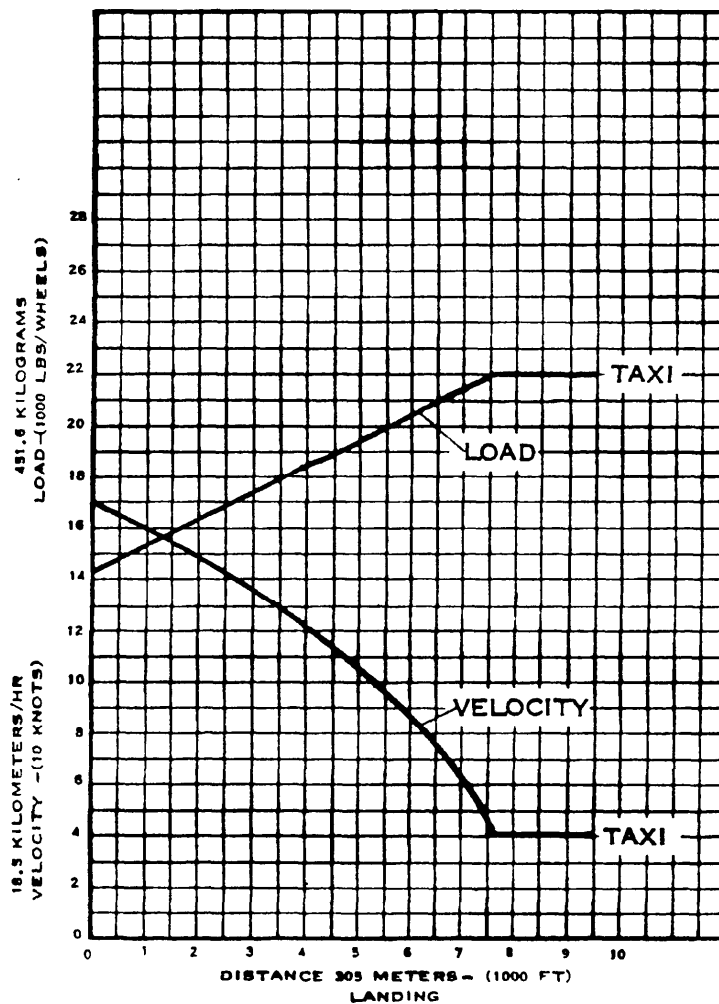
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FIGURE 5

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|---|--|--|
| P.A. 70 Other Cont 99 | TITLE TIRE - PNEUMATIC TYPE VIII 30x11.5 - 14.5 / 26 PR | MILITARY STANDARD MS 21781(USAF) |
| PROCUREMENT SPECIFICATION MIL-T-5041 | SUPERSEDES. | SHEET 7 OF 7 |

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