Product Engineering Physical Test Laboratories

BRAKE DYNAMOMETER INSTALLATION SHEET

Procedure DM- —

E.O. P1389-777
DATE: 11-8-79
TEST NO. MC-186

TECH. 160 TEST NO. MC-186 SHEET NO. 55

TEST CONDITIONS:

Setup No.: 83 Broke Location: R.R. G.T.W.: 5279 Lbs. Roll. Rad: 1.108 Ft.
Broke Balance: 60-40 % Flywheel Discs: 2.25 Inertia: 1288 Lb.-Ft. 2

TYPE BRAKE: 1979 "C" CAR 11X2" DUO SERVO REAR DRUM

DISC BRAKE:

Lining Material: _____ Description _____
Rotor Material: _____ Type of Finish: _____
Surface Finish (Microinches - RMS): _____ Rotor Diameter: _____
Rotor Thickness: _____ Hub & Rotor Weight: _____
Caliper Piston Diameter: _____

DRUM BRAKE:

Lining Material: Pri. 931-66 (X12) NON-ASBESTOS (ABEX)
Sec. 931-66 (X12) " "
Drum Material: PROD. Type of Finish: PROD.
Surface Finish (Microinches : 62-78 Drum Diameter: 11.0015"
Diametral Clearance: .035" Hub & Drum Weight: 17.88 — LBS.
Wheel Cylinder Diameter: 1 INCH

SPECIAL INSTRUCTIONS: INSTALL A PLUG TYPE THERMOCOUPLE .040" BELOW THE RUBBING SURFACE ON THE HORIZONTAL & ADJACENT TO THE BACKING PLATE SIDE OF THE SECONDARY SHOE WEB.

PURPOSE OF TEST: TO EVALUATE EFFECTIVENESS.

SCHEDULE	SHEET NO.
1. MAKE ONE (1) STOP @ 300 PSI @ 600 PSI/SEC. FROM EACH OF THE FOLLOWING SPEEDS: 20 MPH, 30 MPH, 40 MPH & 60 MPH. INITIATE @ 100 °F	56
2. REPEAT ITEM # 1 @ 500 PSI @ 1000 PSI/SEC.	57
3. DECELERATIONS: 30, 60 & 80 M.P.H. (LIMIT PRES. TO 1200 PSI)	58
4. BURNISH: 200 STOPS FROM 40 MPH @ 12 FT/SEC² @ 270° INITIAL LINING TEMP.	73
5. REPEAT ITEM # 1	59
6. REPEAT ITEM # 2	60
7. REPEAT ITEM # 3	61
8. MAKE A SUFFICIENT NUMBER OF STOPS FROM 40 MPH @ 500 PSI @ 45 SEC. INT. TO HEAT BRAKE FROM 150 °F. TO 400 °F. RUN A TOTAL OF 10 HEAT CYCLES.	NO DATA
9. AFTER THE 10TH HEAT CYCLE @ 400 °F REPEAT ITEMS # 1, 2 & 3	62, 63, 64 & 65
10. REPEAT ITEMS # 1, 2 & 3 @ 100 °F	66, 67, 68 & 69
11. REPEAT ITEM # 4 EXCEPT MAKE ONLY 35 STOPS.	73
12. REPEAT ITEMS # 1, 2 & 3	70, 71, & 72

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