Product Engineering Physical Test Laboratories

BRAKE DYNAMOMETER INSTALLATION SHEET

Procedure DM- ——

E.O. P1389-631
DATE: 6-7-79
TEST NO. XC-448

TECH. DN
TEST NO. XC-448

TEST CONDITIONS:

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

TYPE BRAKE: 1979 "C" CAR 11"x2" DUO-SERVO DRUM #18004898

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: Prl. IN-4035
Sec. IN-4050
Drum Material: 1979 "C" CAR PROD. Type of Finish: PROD.
Surface Finish (Microinches - RMS): 110-130 Drum Diameter: 11.001"
Diametral Clearance: .030" Drum Weight: 17.09 LBS.
Wheel Cylinder Diameter: 1.0"

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

PURPOSE OF TEST: TO EVALUATE EFFECTIVENESS UTILIZING VARIOUS LINING COMBINATIONS.

SCHEDULE	SHEET NO.
1. MAKE ONE(1) STOP @ 300 PSI @ 600 PSI/SEC. FROM EACH OF THE FOLLOWING SPEEDS: 20, 30, 40, & 60 MPH. INITIATE @ 100°F. @ EACH SPEED.	88
2. REPEAT ITEM #1 @ 500 PSI @ 1000 PSI/SEC.	89
3. DECELERATIONS: 30, 60, & 80 MPH. (1200 PSI PRESSURE LIMIT)	90
4. BURNISH: (200) STOPS FROM 40 MPH @ 12 Ft/sec² @ 270°F INITIAL LINING TEMPERATURE.	103
5. REPEAT ITEMS # 1, 2, & 3.	91, 92, & 93
6. 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 CYCLES.	NO DATA
7. AFTER THE 10TH CYCLE, REPEAT ITEMS #1, 2, & 3 @ 400°F.	94, 95, & 96
8. REPEAT ITEMS #1, 2, & 3 @ 100°F.	97, 98, & 99
9. REPEAT ITEM #4, EXCEPT MAKE ONLY 35 STOPS.	103
10. REPEAT ITEMS #1, 2, & 3.	100, 101, & 102

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