

Application Data Sheet

(for Full Power Hydraulic Brake Systems with ABS and Traction Control)

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You incur no obligation by submitting this data and the non-public information provided will be held in confidence by ZF.

Name	Title
Company	
Address City	
Fax Phone	Country
Email	
Are you currently working with a ZF Off-Highway Distributor?	No If yes, which one and who is the contact?
Estimated Annual Quantity	
Is this a military application?	destination country?
HYDRAULIC SYSTEM CHARACTERISTICS	
Attach any available hydraulic system schematics relevant	ant to full power actuation circuits.
Maximum pump flow Minimum pum	p flow
Pump type: Gear Vane Piston Manufacturer and m	nodel number
Load Sensing: Yes No Standby	
Internal bleed down: Yes No Relief valve	<u></u>
Oil names and numbers	Filtration microns
Operating temperature range: Minimum Normal	Maximum
Flow required for components other than brake valve	
What is the function of other components?	
VEHICLE SPECIFICATIONS	
Type of vehicle or machine Name and model	number
Gross vehicle weight Empty vehicle weight _	
Weight distribution loaded: front or % rear	or %
Rolling radius: front rear	_
Maximum loaded speed (level) Maximum g	grade in favor of load %
Rate of deceleration desired: Stop in from	or
Required number of vehicle stops without main hydraulic system pressure	
Is this application required to conform with recommended practices or stand	dards? If so which ones:

SPECIFICATIONS MOBILE EQUIPMENT

Duty cycle
Type of brake actuation: Hydraulic Mechanical Air Spring set hydraulic release
Other
Fluid used for brakes DOT 3 or 4 brake fluid Mineral oil base Water base Synthetic base
Fluid manufacturer and brand name
BRAKE VALVE REQUIREMENTS
Attach any available brake performance specifications.
Brake type Caliper Drum In axle Number per vehicle
Self adjusting: Yes No
Indicate brake relation within axle to gear train (use diagram) Brake mounted on driveline Overall ratio
Brake mounted between differential and planetary ratio
Prake mounted out heard of planetary ratio
Figure Larry Table
Caliper brake characteristics:
Piston diameter Number of pistons per caliper side
Maximum stroke
Piston pretravel to contact disc
Maximum allowable pressure Rotor diameter
Volume requirements (per brake)
New lining maximum Worn lining maximum
Brake torque capacity (per brake) at
Manufacturer Model number
Drum brake characteristics:
Type Brake size (diameter and width) x
Wheel cylinder: diameter Number
Piston travel to contact drum
Actuation volume requirements (per brake):
New lining maximum Worn lining maximum
Brake torque capacity (per brake) at
Maximum allowable pressure
Manufacturer Model Number
In Axle brake characteristics:
Maximum allowable pressure
Axle manufacturer Axle model number Brake type: Dry Multiple Disc Wet Multiple Disc
Actuation volume requirements (per axle):
New lining maximum Worn lining maximum
Brake torque capacity (per axle) at Type of fluid used with brakes

ABS / TRACTION CONTROL REQUIREMENTS				
Type of system: ABS Traction Control ABS and Traction Control				
Nominal system voltage				
Number of drive wheels				
Wheel speed sensor: MICO ABS controllers only support hall effect style sensors.				
Number of pulses per one revolution of the wheel				
Manufacturer of wheel speed sensor Model number				
Does the engine and transmission require SAE J1939 messages to be sent from the ABS controller?				
If so, what are the messages to be sent?				
Environmental requirements				
Is steering assist desired?				
Comments:				

Proposals will be made on the basis of the information provided. Subsequent customer engineering changes affecting the above could make our proposal invalid.

NOTICE

Component and system recommendations made by ZF Off-Highway Solutions Minnesota Inc. are based on information supplied by you. ZF does not independently confirm or test information supplied, or test the applicability of components or system recommendations. All recommendations are based on theoretical application of ZF Off-Highway Products based on the information you provide. Actual results may vary based on actual use conditions or inaccuracies in provided information. You must finally accept and approve recommended components and systems after you test the performance of the recommended system and components in actual applications for which the system was designed and in which it is operated. ZF Off-Highway reserves the right to reject any orders for components and systems not so accepted and approved. No component or system recommendation is intended to be or shall be construed as an express warranty by ZF Off-Highway Solutions Minnesota Inc. All ZF Off-Highway Products and services are sold and provided subject to the ZF Warranties set forth at www.mico.com in effect on the date of sale or supply.



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