SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in appendix D. The "useful life" of a new tire is the product of Condition Factors (CF) from I through V, the Wheel Position Factor (WPF), the Grade Factor (GF) (for Drive Tires only) and the Miscellaneous Condition (MC). These factors provide a percentage reduction to the maximum tire life. See chapter 2 for tire cost methodology. Condition Factors, Wheel Position Factors, Grade Factor, and Miscellaneous Condition are derived from the Caterpillar Performance Handbook. The factors shown below are examples specifically for a bottom dump wagon.

	Condition Factors (CF):	Average	Severe
I.	Maintenance	0.981	0.763
II.	Speed	0.872	0.763
III.	Surface Condition	0.981	0.763
IV.	Loads	0.981	0.709
۷.	Curves	0.981	0.872
CF	Product of the factors	0.808	0.275
	(I x II x III x IV x V)		
	Wheel Position Factors (WPF):		
VI.	WPF-FT Front Tire (FT)	0.981	0.981
VII.	WPF-DTR Drive Tire (DT) - Bottom Dump	0.872	0.872
VIII.	WPF-TT Trailing Tire (TT)	1.09	1.09
IX.	Grade Factor (GF) (Drive Tires Only)	0.981	0.872
Х.	Miscellaneous Condition (MC)	0.981	0.981

SECTION I. TIRE WEAR FACTORS (Continued)		Average	Severe
Front Tire-Average =			
(CF = .808)(WPF-FT = 0.981)(MC = 0.981)	=	.78	
Front Tire-Severe =			
(CF = .275)(WPF-FT = 0.981)(MC = 0.981)	=		.26
Drive Tire-Average =			
(CF = .808)(WPF-FT = 0.872)(MC = 0.981)	=	.69	
Drive Tire-Severe =			
(CF = .275)(WPF-FT = 0.872)(MC = 0.981)	=		.23
Trailing Tire-Average =			
(CF = .808)(WPF-FT = 1.09)(MC = 0.981)	=	.86	
Trailing Tire-Severe =			
(CF = .275)(WPF-FT = 1.09)(MC = 0.981)	=		.29

SECTION II. MAXIMUM TIRE LIFE

Maximum tire life is used in the formula to determine tire wear cost. It is located in appendix F and categorized by tire type.