



CLEAN OIL MATTERS!!!

Unfiltered oil can produce as much as 8,000 lbs. of dirt passing through your hydraulic system per year! These contaminants destroy critical components and dramatically shorten system life expectancy. THE SOLUTION? Michigan Petroleum and high performance purification solutions from Harvard Corporation.

HYDRAULIC SYSTEM LIFE EXTENSION TABLE

Current ISO Code	Target ISO Code	Target ISO Code	Target ISO Code	Target ISO Code
	2 X LIFE	3 X LIFE	4 X LIFE	5 X LIFE
28/26/23	25/23/21	25/22/19	23/21/18	22/20/17
27/25/22	25/23/19	23/21/18	22/20/17	21/19/16
26/24/21	23/21/18	22/20/17	21/19/16	21/19/15
25/23/20	22/20/17	21/19/16	20/18/15	19/17/14
25/22/19	21/19/16	20/18/15	19/17/14	18/16/13
23/21/18	20/18/15	19/17/14	18/16/13	17/15/12
22/20/17	19/17/14	18/16/13	17/15/12	16/14/11
21/19/16	18/16/13	17/15/12	16/14/11	15/13/10
20/18/15	17/15/12	16/14/11	15/13/10	14/12/9
19/17/14	16/14/11	15/13/10	14/12/9	14/12/8
18/16/13	15/13/10	14/12/9	13/11/8	-
17/15/12	14/12/9	13/11/8	-	-
16/14/11	13/11/8	-	-	-
15/13/10	13/11/8	-	-	-
14/12/9	13/11/8	-	-	-



ISO CLEANLINESS GUIDELINES

Componentry	Typical Cleanliness Specification						
	14/12/9	15/13/10	16/14/11	17/15/12	18/16/13	19/17/14	20/18/15
Servo Valving	●	●	●				
Proportional Valve		●	●	●			
Variable Displacement Pump			●	●	●		
Cartridge Valve				●	●	●	
Piston Pump				●	●	●	
Vane Pump					●	●	●
Pressure / Flow Control Valve					●	●	●
Solenoid Valve					●	●	●

MICHIGAN PETROLEUM TECHNOLOGIES

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