

ISO 4406 Cleanliness Code - Range 1 to 25

Number of particles per ml sample		ISO 4406 Cleanliness code
Particle count more than:	Particle count up to:	
160,000	320,000	25
80,000	160,000	24
40,000	80,000	23
20,000	40,000	22
10,000	20,000	21
5,000	10,000	20
2,500	5,000	19
1,300	2,500	18
640	1,300	17
320	640	16
160	320	15
80	160	14
40	80	13
20	40	12
10	20	11
5	10	10
2.5	5	9
1.3	2.5	8
0.64	1.3	7
0.32	0.64	6
0.16	0.32	5
0.08	0.16	4
0.04	0.08	3
0.02	0.04	2
0.01	0.02	1



Example: A 16/13 particle count:
 16 represents the total number of particles larger than 5 microns
 13 represents the total number of particles larger than 15 microns

Machinery Life Extension Table

OIL CLEANLINESS TARGET PARTICLE COUNT?																				
20/17	19/16	18/15	17/14	16/13	15/12	14/11	13/10	12/9	11/8	10/7										
5	3	7	3.5	9	4	>10	5	>10	6	>10	7.5	>10	9	>10	>10	>10	>10	>10	26/23	
4	2.5	4.5	3	6	3.5	6.5	4	7.5	5	8.5	6.5	10	7	>10	9	>10	>10	>10	>10	25/22
3	2	3.5	2.5	4.5	3	5	3.5	6.5	4	8	5	9	6	10	7.5	10	9	>10	>10	24/21
2.5	1.5	3	2	4	2.5	5	3	6.5	4	7.5	5	8.5	6	>10	6	>10	7	>10	>10	23/20
2	1.5	3	2	4	2.5	5	3	7	3.5	9	4	>10	5	>10	6	>10	8	>10	9	22/19
1.7	1.3	2.3	1.5	3	2	3.7	2.5	5	3	6	3.5	7	4	8	5	10	6.5	>10	8.5	21/18
1.6	1.3	2	1.6	3	2	4	2.5	5	3	7	3.5	8	4	>10	5	>10	6	>10	7	20/17
1.4	1.1	1.8	1.3	2.3	1.7	3	2	3.5	2.5	4.5	3	5.5	3.5	7	4	8	5	10	5.5	19/16
1.3	1.2	1.5	1.5	2	1.7	3	2	4	2.5	5	3	7	3.5	9	4	>10	5	>10	7	18/15
1.2	1.1	1.5	1.3	1.8	1.4	2.2	1.6	3	2	3.5	2.5	4.5	3	5	3.5	7	4	9	5.5	17/14
		1.3	1.2	1.6	1.5	2	1.7	3	2	4	2.5	5	3	7	4	9	5	>10	7	16/13
		1.2	1.05	1.5	1.3	1.8	1.4	2.3	1.7	3	2	3.5	2.5	5	3	6	4	8	5.5	15/12
				1.3	1.2	1.6	1.5	2	1.7	3	2	4	2.5	5	3	7	4	9	6	14/11
				1.2	1.1	1.5	1.3	1.8	1.5	2.2	1.7	3	2	3.5	2.5	5	3.5	7	4.5	13/10
						1.3	1.2	1.6	1.5	2	1.7	3	2	4	2.5	6	3	8	5	
						1.2	1.1	1.5	1.3	1.8	1.5	2.3	1.7	3	2	4	2.5	6	3.5	
								1.3	1.2	1.6	1.5	2	1.7	3	2	4	3.5	6	4	
								1.2	1.1	1.5	1.3	1.8	1.5	2.3	1.8	3.7	3	4.5	3.5	
										1.3	1.2	1.6	1.5	2	1.7	3	2	4	2.5	
										1.2	1.1	1.5	1.4	1.8	1.5	2.3	1.8	3	2.2	
												1.3	1.3	1.6	1.6	2	1.8	3	2	
												1.3	1.2	1.6	1.4	1.9	1.5	2.3	1.8	
														1.4	1.2	1.8	1.5	2.5	1.8	
														1.2	1.1	1.6	1.3	2	1.6	

Read your cleaned oil machinery life extension multiplication factor from box corners

Hydraulics & Diesel Fuel	Rolling Elem Bearings
Journal Bearings	Gear Boxes & Others
Turbo Machinery	

Diesel engine oil at 20/17. If filtered clean and kept at 16/13 will promote an engine "Life Extension" of 3 times normal life. Gear box oil at 20/17. If filtered clean and kept at 13/10 will promote a gear box "Life Extension" of 3 times normal life. Ref: Noria Corp.