

## ASTM Committee D-2 Interlaboratory Crosscheck Program

In-Service Oil Monitoring - marzo 2017 (ISDO1703)

Metodo	Parametro	U.M.	Media		Dev.St. RRT	z-score*
			Mecoil	RRT		
ASTM D664	TAN	mg KOH/g	<b>2,4</b>	<b>3,2</b>	0,6	-1,4
ASTM D2896(B)	TBN	mg KOH/g	<b>8,5</b>	<b>8,9</b>	0,4	-1,1
ASTM D3828(B)	Flash Point	°C	<b>200,0</b>	<b>197,6</b>	6,8	0,3
FDM	Fuel dilution	mg/kg	<b>0,0</b>	<b>0,0</b>	0,6	0,0
ASTM D6595	Alluminio	mg/kg	<b>0,0</b>	<b>1,0</b>	0,7	-1,3
ASTM D6595	Argento	mg/kg	<b>0,0</b>	<b>0,0</b>	0,1	0,0
ASTM D6595	Bario	mg/kg	<b>0,0</b>	<b>0,0</b>	0,0	0,0
ASTM D6595	Boro	mg/kg	<b>39,3</b>	<b>42,1</b>	5,5	-0,5
ASTM D6595	Calcio	mg/kg	<b>1504,0</b>	<b>1257,2</b>	212,7	1,2
ASTM D6595	Cromo	mg/kg	<b>0,9</b>	<b>1,4</b>	0,4	-1,4
ASTM D6595	Ferro	mg/kg	<b>20,0</b>	<b>18,6</b>	1,4	1,0
ASTM D6595	Fosforo	mg/kg	<b>1090,0</b>	<b>901,8</b>	220,0	0,9
ASTM D6595	Magnesio	mg/kg	<b>629,0</b>	<b>555,3</b>	100,6	0,7
ASTM D6595	Manganese	mg/kg	<b>0,0</b>	<b>0,2</b>	0,3	0,0
ASTM D6595	Molibdeno	mg/kg	<b>38,0</b>	<b>39,6</b>	5,7	-0,3
ASTM D6595	Nichel	mg/kg	<b>0,0</b>	<b>0,3</b>	0,4	0,0
ASTM D6595	Piombo	mg/kg	<b>1,1</b>	<b>1,9</b>	1,6	-0,5
ASTM D6595	Potassio	mg/kg	<b>1,2</b>	<b>1,1</b>	0,6	0,2
ASTM D6595	Rame	mg/kg	<b>2,8</b>	<b>2,7</b>	0,3	0,2
ASTM D6595	Silicio	mg/kg	<b>3,5</b>	<b>3,5</b>	0,6	-0,1
ASTM D6595	Sodio	mg/kg	<b>19,6</b>	<b>22,8</b>	3,0	-1,1
ASTM D6595	Stagno	mg/kg	<b>0,0</b>	<b>0,0</b>	0,0	0,0
ASTM D6595	Titanio	mg/kg	<b>13,4</b>	<b>13,8</b>	2,5	0,0
ASTM D6595	Vanadio	mg/kg	<b>0,0</b>	<b>0,4</b>	0,5	0,0
ASTM D6595	Zinco	mg/kg	<b>1263,0</b>	<b>1082,1</b>	158,1	1,1
FTIR D7624	Nitrazione	Abs/0.1mm	<b>9,0</b>	<b>6,8</b>	4,1	0,5
FTIR D7414	Ossidazione	Abs/0.1mm	<b>16,0</b>	<b>13,4</b>	7,2	0,4
FTIR D7415	Solfatazione	Abs/0.1mm	<b>15,0</b>	<b>12,5</b>	10,0	0,2
FTIR	Soot	% peso	<b>0,0</b>	<b>0,1</b>	0,1	-0,6
FTIR D7412	Antiusura	% peso	<b>19,9</b>	<b>14,2</b>	7,8	0,7
ASTM D445	Visc. 100°C	cSt	<b>14,4</b>	<b>14,4</b>	0,1	-0,4
ASTM D445	Visc. 40°C	cSt	<b>107,7</b>	<b>107,2</b>	0,4	1,1
ASTM D7042	Visc. 100°C	cSt	<b>14,4</b>	<b>14,4</b>	0,0	2,0
ASTM D7042	Visc. 40°C	cSt	<b>107,3</b>	<b>107,8</b>	0,7	-0,7
ASTM D6304(C)	Acqua, KF	mg/kg	<b>292,0</b>	<b>337,0</b>	129,3	-0,3

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\* "The z-score column reports each lab's deviation in units of standard deviations. The z-score is the ratio of the deviation to the standard deviation. A z-score greater than 2 - or less than negative 2 - should cause a laboratory to review their test data for any possible systematic error. Z-scores outside this range should occur only about one time in twenty, if a laboratory has average capability running the method. Laboratories should strive to obtain z-score values close to zero."

(da ASTM ISDO1703 Report Introduction).