

ASTM Committee D-2 Interlaboratory Crosscheck Program
In-Service Oil Monitoring - March 2024 (ISDO2403)

Metodo	Parametro	U.M.	Media		Dev.St. RRT	z-score*	Risultati
			Mecoil	RRT			
ASTM D8045 (corr. D664)	AN	mg KOH/g	2.25	2.94	0.75	-0.9	128
ASTM D2896(B)	TBN	mg KOH/g	6.3	6.0	1.0	0.4	49
ASTM D7094 (corr. D93)	Flash Point	°C	206	206	8	0.0	27
ASTM D8004	Gasolio SAW	% peso	0.0	0.5	0.5	-1.1	67
ASTM D6595	Alluminio	mg/kg	3.1	3.1	0.6	0.1	18
ASTM D6595	Argento	mg/kg	0.0	0.1	0.1	0.0	14
ASTM D6595	Bario	mg/kg	0.0	0.0	0.0	-0.4	14
ASTM D6595	Boro	mg/kg	133	159	30	-0.9	18
ASTM D6595	Calcio	mg/kg	1080	1098	83	-0.2	16
ASTM D6595	Cromo	mg/kg	0.6	0.6	0.3	0.1	18
ASTM D6595	Ferro	mg/kg	15.5	15.5	1.6	0.0	18
ASTM D6595	Fosforo	mg/kg	1001	1010	124	-0.1	18
ASTM D6595	Magnesio	mg/kg	397	399	40	0.0	18
ASTM D6595	Manganese	mg/kg	0.0	0.2	0.3	-0.8	10
ASTM D6595	Molibdeno	mg/kg	66	66	5	0.0	18
ASTM D6595	Nichel	mg/kg	0.2	0.1	0.1	0.7	17
ASTM D6595	Piombo	mg/kg	2.0	1.4	1.1	0.5	18
ASTM D6595	Potassio	mg/kg	4.7	4.5	1.8	0.1	10
ASTM D6595	Rame	mg/kg	0.4	0.4	0.1	-0.2	10
ASTM D6595	Silicio	mg/kg	7.8	8.3	1.4	-0.3	18
ASTM D6595	Sodio	mg/kg	2.5	3.3	0.7	-1.1	17
ASTM D6595	Stagno	mg/kg	0.0	0.4	0.7	-0.6	19
ASTM D6595	Titanio	mg/kg	0.0	0.0	0.0	0.0	14
ASTM D6595	Vanadio	mg/kg	0.0	0.2	0.4	-0.6	14
ASTM D6595	Zinco	mg/kg	1147	1064	87	1.0	14
ASTM D7624-proc.A	Nitrazione	Abs/cm	6.9	7.1	1.1	-0.2	22
ASTM D7624-proc.B	Nitrazione	Abs/cm	1.7	3.6	3.4	-0.5	16
ASTM D7414-proc.A	Ossidazione	Abs/cm	16.6	17.3	1.3	-0.5	43
ASTM D7414-proc.B	Ossidazione	Abs/cm	4.6	9.8	5.8	-0.9	19
ASTM D7415-proc.A	Solfatazione	Abs/cm	20.9	22.2	1.8	-0.7	19
ASTM D7415-proc.B	Solfatazione	Abs/cm	0.0	3.0	3.2	-0.9	10
FT-IR	Soot	% peso	0.7	0.3	0.2	1.8	45
ASTM D7412-proc.A	Antiusura	Abs/0.1mm	16.2	16.0	0.9	0.2	9
ASTM E2412 modif.	Glicole	% peso	0.0	0.0	0.1	-0.6	3
ASTM E2412 modif.	Acqua FTIR	% peso	0.0	0.0	0.0	-0.4	9
ASTM D445	Visc. 40°C	cSt	94.0	93.2	0.7	1.2	79
ASTM D445	Visc. 100°C	cSt	13.58	13.57	0.13	0.1	72
ASTM D2270 (D445)	Indice di viscosità		146	147	3	-0.4	64
ASTM D7042	Visc. 40°C	cSt	94.0	93.5	0.6	0.7	21
ASTM D7042	Visc. 100°C	cSt	13.61	13.60	0.06	0.2	16
ASTM D2270 (D7042)	Indice di viscosità		146	147	2	-0.5	15
ASTM D6304 proc. B	Acqua, KF	mg/kg	289	303	117	-0.1	49

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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 ISDO Report Introduction).