



Committee D02

Proficiency Test Program

In Service Oil Monitoring

Sample ID: ISDO2207

July 2022

Report Issue Date: October 10, 2022



Alphabetical Listing of Laboratories Submitting Results for ISDO2207

Lab Name (as given in Registration)	City	State/Province	Country
ALPHA MAINTENANCE SYSTEMS BVBA	SINT-PIETERS-LEEUEW		Belgium
ALS Tribology - Brisbane	Stafford		Australia
ALS Tribology - Atlanta GA	ATLANTA	GA	United States
ALS Tribology - Brazil	Contagem	MG	Brazil
ALS Tribology - Burlington	Burlington		Canada
ALS Tribology - Chile	Colina	Santiago	Chile
ALS Tribology - Czech Republic	Praha 9		Czechia
ALS Tribology - Edmonton	Edmonton		Canada
ALS Tribology - Kansas City KS	KANSAS CITY	KS	United States
ALS Tribology - Muswellbrook	Muswellbrook		Australia
ALS Tribology - Perth	Perth		Australia
ALS Tribology - Phoenix AZ	PHOENIX	AZ	United States
ALS Tribology - Portland OR	PORTLAND	OR	United States
ALS Tribology - Sydney	Wetherill Park		Australia
ALS Tribology - Valley View OH	VALLEY VIEW	OH	United States
ALS Tribology - Wellington	Seaview, Lower Hutt		New Zealand
ALS Tribology- Malaysia	Jelutong		Malaysia
Afton Chemical Corp - Richmond, VA	Richmond	VA	United States
Agat Laboratories - Calgary	CALGARY		Canada
Alfred H Knight Zambia Ltd	Kitwe		Zambia
Als Technichem(S) Pte Ltd	Singapore		Singapore
Ameren Missouri	ST. LOUIS	MO	United States
Apl Gmbh	LANDAU		Germany
Bufete De Mantenimiento Predic	Paraiso	Mexico	Mexico
Bureau Veritas Canada - Edmonton PTC	EDMONTON		Canada
Bureau Veritas Saudi Arabia - Al-Jubail	Al-Jubail		Saudi Arabia
Bureau Veritas South Africa - Gazelle	Mpumalanga		South Africa
Bureau Veritas UAE - Dubai	Dubai		United Arab Emirates
Bureau Veritas USA - OCM Hoffman Estates, IL	Hoffman Estates	IL	United States
Bureau Veritas USA - OCM Stafford, TX	STAFFORD	TX	United States
Bureau Veritas USA - OCM Suwanee, GA	Suwanee	GA	United States

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CELEC EP	Quito		Ecuador
CETSEO (Ex- CEPIA)	Marseille		France
Cashman Equipment	Sparks	NV	United States
Center for Reliability and Excellence	Mandaluyong		Philippines
Chevron Oronite Technology - Netherlands	VONDELINGENPLAAT RT		Netherlands
Clark Laboratories Llc	JEFFERSON HILLS	PA	United States
Compania De Petroleos de Chile COPEC S.A.	Antofagasta		Chile
Constellation Power Source	BALTIMORE	MD	United States
Cosan Lubrificantes E Especialidades	Rio de Janeiro		Brazil
Cummins Inc - Columbus	Columbus	IN	United States
DISA	Montevideo		Uruguay
Dexsil Corp	Hamden	CT	United States
Dia Maritime - Puget Sound	Silverdale	WA	United States
ENDESA GENERACIÓN, S.A.	AS PONTES	LA CORUÑA	Spain
Empresa Nacional de Energia ENEX S.A.	Antofagasta		Chile
ExxonMobil (China) Investment Co Ltd - Shanghai	Shanghai		China
Fluid Life Ltd. - Dallas	Irving	TX	United States
Focus Lab Ltd	Bangkok		Thailand
Ford Motor Co	DEARBORN	MI	United States
Geo Chem Doha	Al Wukhair		Qatar
ICONIC Lubrificantes S.A	Rio de Janeiro		Brazil
ICT Oil Labs Ltd	Kfar-Sava		Israel
ISP Salzbergen GmbH & Co. KG	Salzbergen		Germany
Idemitsu Lubricants America	Wixom	MI	United States
Idemitsu Lubricants America Corp.	JEFFERSONVILLE	IN	United States
Imperial Oil	Sarnia		Canada
InnoTech Alberta	EDMONTON		Canada
Intertek - Aberdeen, United Kingdom	Aberdeen		United Kingdom
Intertek - Chicago (Romeoville), IL	ROMEOVILLE	IL	United States
Intertek - Farnborough, UK	Farnborough		United Kingdom
Intertek - Jakarta, Indonesia	Jakarta Timur 13710		Indonesia
Intertek - Mumbai, India	Mumbai		India
Intertek - Panama	PANAMA CITY		Panama
Intertek - Shanghai Orient Intertek Testing Services Co.,Ltd.	Shanghai		China
Intertek - Sharjah, U.A.E.	Sharjah		United Arab Emirates
Intertek - West Thurrock	Grays		United Kingdom
Jet-Care International Inc	CEDAR KNOLLS	NJ	United States

Lab Name (as given in Registration)	City	State/Province	Country
KC Signum Oil Analysis Lab	Kansas City	KS	United States
Lab One Inc	PHOENIX	AZ	United States
Laboratorio Lantos SA CUIT 33711421189	Buenos Aires		Argentina
Lubrizol Additive (Zhuhai) Co, Ltd. - BTS	Zhuhai		China
Lubrizol Corp-Wickliffe	Wickliffe	OH	United States
Lubrizol Corporation - BTS Thane India - LU	Thane, Maharashtra		India
Lubrizol Corporation UK	Derby		United Kingdom
Luval S.A.	SANTIAGO		Chile
Maritec Pte Ltd	Singapore		Singapore
Mecoil Diagnosimeccaniche Srl	Firenze		Italy
Mol-Lub Ltd	ALMASFUZITO		Hungary
Northland Products	WATERLOO	IA	United States
Oil Analysis Laboratories	Colwyn Bay		United Kingdom
P M D S	Haifa		Israel
PTT Oil and Retail Business Company Limited	Bangkok		Thailand
Petrobras Colombia Combustibles S.A.	Bogota		Colombia
Petron Corp	MANDALUYONG CITY		Philippines
Polaris Laboratories Bogota	Indianapolis	IN	United States
Polaris Laboratories Edmonton	Indianapolis	IN	United States
Polaris Laboratories Guatemala	Indianapolis	IN	United States
Polaris Laboratories Houston	HOUSTON	TX	United States
Polaris Laboratories Indianapolis	INDIANAPOLIS	IN	United States
Polaris Laboratories Poznan	Indianapolis	IN	United States
Polaris Laboratories Salt Lak City	SALT LAKE CITY	UT	United States
Predictive Maintenance Corporation	MONTREAL		Canada
Predictive Matinenance Servs	Dover	OH	United States
Pt. Tekenomiks Indonesia- Sangata	Sangata		Indonesia
SGS Analytics United Kingdom Ltd	CONWY		United Kingdom
SGS Belgium	Gent		Belgium
Sarcova Industries Inc	Burnaby		Canada
Servicios Tribologicos - Antofagasta	Antofagasta		Chile
Servicios Tribologicos - Collahuasi	Antofagasta		Chile
Socotec Uk	Doncaster		United Kingdom
Soltrak S.A:	Callao		Peru
Southwest Research Institute	San Antonio	TX	United States
T V A Central Labs Services	CHATTANOOGA	TN	United States
Techenomics Australia	Gunnedah, NSW 2380		Australia

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Techenomics Australia	Newman	WA	Australia
Techenomics Mongolia Llc	Ulaanbaatar		Mongolia
Tekenomiks Indonesia	Balikpapan		Indonesia
Tekenomiks Indonesia-Jakarta	Serpong - Tangerang â Banten		Indonesia
Terpel Comercial del Peru S R L	Lima		Peru
The Fluid Life Corp - Brantford	BRANTFORD		Canada
The Fluid Life Corporation - Bloomington	BLOOMINGTON	MN	United States
The Fluid Life Corporation - Edmonton	Edmonton		Canada
Total Belgium N V	Ertvelde		Belgium
Tribocare FZC	Sharjah		United Arab Emirates
Tribocare Pte Ltd		singapore	Singapore
Tribologik	Hammond	IN	United States
Trico Corporation	Pewaukee	WI	United States
Ultra Plus Lubes Pvt. Ltd.	Raigarh	MH	India
Us Army Garrison-Michigan	Warren	MI	United States
Valvoline Co	LEXINGTON	KY	United States
Viswa Lab UAE	Fujairah		United Arab Emirates
Viswa Lab - Houston	Houston	TX	United States
Viswa Lab ç Shanghai	Shanghai		China
Viswalab Singapore Pte Ltd	Singapore		Singapore
Wearcheck Canada Inc	Burlington		Canada
Wearcheck USA	CARY	NC	United States
Weir Marine Engineering	LASALLE		Canada
Westrac Sos Lab Pty Ltd	Perth		Australia
Wimpey Laboratories Llc	Abu Dhabi		United Arab Emirates

ASTM Committee D-2 Interlaboratory Crosscheck Program
In-Service Oil Monitoring - Marzo 2022 (ISDO2203)

Metodo	Parametro	U.M.	Mecoil	Media	Dev.St.	z-score*
				RRT	RRT	
ASTM D8045 (corr. D664)	AN	mg KOH/g	1,75	2,00	0,5	-0,5
ASTM D2896(B)	TBN	mg KOH/g	10,0	10,3	0,8	-0,4
ASTM D7094 (corr. D93)	Flash Point	°C	210	204	7,6	0,9
ASTM D8004 (corr. GC)	Gasolio FDM	% peso	0,0	0,4	0,5	-1,0
ASTM D6595	Alluminio	mg/kg	0,8	0,9	0,9	-0,2
ASTM D6595	Argento	mg/kg	0,0	0,0	0,0	-0,3
ASTM D6595	Bario	mg/kg	0,0	0,7	0,5	-1,4
ASTM D6595	Boro	mg/kg	29	30	4,2	-0,3
ASTM D6595	Calcio	mg/kg	1144	1119	160,9	0,2
ASTM D6595	Cromo	mg/kg	0,1	0,1	0,1	-0,1
ASTM D6595	Ferro	mg/kg	5,3	4,8	0,6	0,9
ASTM D6595	Fosforo	mg/kg	794	826	102,2	-0,3
ASTM D6595	Magnesio	mg/kg	793	813	140,0	-0,1
ASTM D6595	Manganese	mg/kg	0,4	0,5	0,5	-0,2
ASTM D6595	Molibdeno	mg/kg	49	45	8,9	0,5
ASTM D6595	Nichel	mg/kg	0,2	0,1	0,1	0,5
ASTM D6595	Piombo	mg/kg	0,4	0,1	0,2	1,9
ASTM D6595	Potassio	mg/kg	19,7	20,3	0,9	-0,8
ASTM D6595	Rame	mg/kg	2,2	2,1	0,8	0,1
ASTM D6595	Silicio	mg/kg	3,1	2,7	1,2	0,4
ASTM D6595	Sodio	mg/kg	14,3	15,7	2,5	-0,6
ASTM D6595	Stagno	mg/kg	0,0	0,3	0,6	-0,3
ASTM D6595	Titanio	mg/kg	0,0	0,1	0,1	-0,6
ASTM D6595	Vanadio	mg/kg	0,0	0,4	0,6	-0,7
ASTM D6595	Zinco	mg/kg	1045	917	120,5	1,1
ASTM D7624-proc.A	Nitrazione	Abs/cm	8,2	7,8	1,4	0,3
ASTM D7624-proc.B	Nitrazione	Abs/cm	3,5	3,8	2,5	-0,1
ASTM D7414-proc.A	Ossidazione	Abs/cm	17,9	18,2	1,2	-0,2
ASTM D7414-proc.B	Ossidazione	Abs/cm	4,8	5,4	2,0	-0,3
ASTM D7415-proc.A	Solfatazione	Abs/cm	23,0	21,3	2,2	0,8
ASTM D7415-proc.B	Solfatazione	Abs/cm	0,0	1,2	1,7	-0,7
ASTM D7412-proc.A	Antiusura	Abs/0.1mm	17,5	16,3	1,4	0,8
ASTM E2412 modif.	Soot	% peso	0,0	0,1	0,1	-1,1
ASTM E2412 modif.	Glicole	% peso	0,0	0,0	0,0	0,0
ASTM E2412 modif.	Acqua FTIR	% peso	0,0	4,2	8,5	-0,5
ASTM D445	Visc. 40°C	cSt	106,40	106,89	0,7	-0,7
ASTM D445	Visc. 100°C	cSt	14,30	14,25	0,1	0,4
ASTM D2270 (D445)	Indice di viscosità		137	136	1,5	0,9
ASTM D7042	Visc. 40°C	cSt	107,30	107,31	0,6	0,0
ASTM D7042	Visc. 100°C	cSt	14,32	14,32	0,1	0,0
ASTM D2270 (D7042)	Indice di viscosità		136	136	1,9	0,2
ASTM D6304(C)	Acqua, KF	mg/kg	108	193	121,3	-0,7

Firenze, 11 ottobre 2022

Dott. Alessandro Paccagnini
Responsabile Laboratorio
Mecoil Diagnosi Meccaniche Srl

* "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).