


NO: SAMM 221(Issue 2, 01 July 2025 replacement
of SAMM 221 dated 01 July 2025)

Page: 1 of 5

LABORATORY LOCATION/ CENTRAL OFFICE:	ITS Testing Services (M) Sdn Bhd NO. 8, JALAN SELAT SELATAN 7/KS05, TAMAN PERINDUSTRIAN SOBENA JAYA, PANDAMARAN , 42000, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	01 JULY 2025
FIELD(S) OF TESTING:	CHEMICAL
BRANCH:	
1 . BRANCH LABORATORY :	ITS TESTING SERVICES (M) SDN BHD, PLO 590, JALAN KELULI 9, KAWASAN MIEL, PASIR GUDANG FASA IV ,, MALAYSIA
FIELD(S) OF TESTING:	CHEMICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	ITS Testing Services (M) Sdn Bhd NO. 8, JALAN SELAT SELATAN 7/KS05, TAMAN PERINDUSTRIAN SOBENA JAYA, PANDAMARAN , 42000, Selangor
FIELD(S) OF TESTING :	CHEMICAL,

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil Products & Edible Oils	Acidity (FFA)	AOCS Ca 5a-40
	Moisture & Volatile Matter	MPOB P 2.1 (2004)
	Impurities	MPOB P 2.2 (2004)
	Iodine value	AOCS Cd Id-92
	Slip Melting Point	AOCS Cc 3-25
	Colour	AOCS Cc 13e-92
	Saponification Value	AOCS Cd 3-25

Schedule

Issue date: 01 July 2025
Valid Until: -



NO: SAMM 221

(Issue 2, 01 July 2025 replacement of SAMM 221 dated 01 July 2025)

Page: 2 of 5

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Peroxide Value	AOCS Cd 8-53
	Cloud Point	AOCS Cc 6-25
	Carotene	MPOB P2.6 (2004)
	Deterioration of Bleachability Index (DOBI)	MPOB P2.9 (2004)
	Refractive Index	AOCS Cc 7-25
	Determination of Conventional Mass Per Volume (Litre in Air) - Relative Density	ISO 6883 (2017) Gay Lussac Pyknometer
	Unsaponifiable Matter	AOCS Ca 6a-40
	Peroxide Value, Acetic Acid, Isooctane Method	AOCS Cd 8b-90 (2017)
	Acid Value and Acidity	BS EN ISO 660:2020 (Clause 9.1 Cold Solvent method using indicator)
	Moisture & Volatile Matter	ISO 662:2016
	Insoluble Impurities	ISO 663:2017
	Flash Point	EN ISO 3679:2022 ASTM D3828-16a (2021)
Petroleum & Petroleum Products Fame (fatty Acid Methyl Esters), Solvent And Paint		
Petroleum & Petroleum Products Fame (fatty Acid Methyl Esters)	Oxidation Stability	EN 15751:2014
	Oxidation Stability	EN 14112:2020
	Ca, Mg, K & Na	EN 14538:2006
	P	EN 14107:2003
	Iodine value	EN 14111:2022
	Sulfur	EN ISO 20846:2019
	Sulfur	IP 490:2019
	Acid Value	BS EN 14104:2021
	Density -Oscillating U-tube method	ISO 12185:1996
	Kinematic Viscosity by Stabinger type Viscosimeter	BS EN 16896:2016
Lubricating Oil	Ca, Zn, P, S by ICP-AES	ASTM D4951-14 (2019)
Environmental Monitoring Waste Water	Total Solids Dried at 103-105 °C	APHA 2540 B
	Total Dissolved Solids Dried at 180 °C	APHA 2540 C
	Total Suspended Solids Dried at 103- 105 °C	APHA 2540 D
	Oil and Grease	APHA 5520 B
	pH	APHA 4500-H-B
	Al, Cu, Zn by ICP-OES	ISO 11885 (2nd Edition, 2007)
Polymers, Electronics And Metals	Lead, Cadmium	In-house Method LWP-028 based on IEC 62321 (2013)
Polymers And Electronics	Hexavalent Chromium (Qualitative)	IEC 62321 (2017)
Corrosion-protected Coatings On Metal	Hexavalent Chromium (Qualitative)	IEC 62321 (2015)

Schedule

Issue date: 01 July 2025
Valid Until: -



NO: SAMM 221

(Issue 2, 01 July 2025 replacement of SAMM 221 dated 01 July 2025)

Page: 3 of 5

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Electroplating Baths	Al, Cu, Zn by ICP-OES	AITM3-0032 (Issue 1, November 2007)
Metal Treatment Solutions	Chloride	AITM3-0035 (Issue 1, May 2009)
Paint And Protection Coating	Lead Content	CPSC-CH-E1003-09.1 (2011) Using AOAC 974.02 (2000) and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Solvent & Organic Liquids	Acidity	ASTM D1613
	Color (PT-Co)	ASTM D1209
	Distillation Range	ASTM D1078
	Permanganate Time	ASTM D1363
	Water Miscibility	ASTM D1722
	Non-volatile matter	ASTM D1353
	Water by Coulometric Karl Fisher Titration	ASTM E1064
Petroleum & Petroleum Products	Color (ASTM-Color Scale)	ASTM D1500
	Density	ASTM D4052
	Sediment by Extraction	ASTM D473
	Water by Distillation	ASTM D95
	Cold Filter Plugging Point	ASTM D6371
	Cold Filter Plugging Point	IP 309: 2016
	Cold Filter Plugging Point	EN 116 2015
	Pour point	ASTM D97
	Cloud point	ASTM D2500
	Flash and Fire Points by Cleveland Open Cup Tester	ASTM D92
	Ash	ASTM D482 IP 4/05
	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93 IP 34/16 ISO 2719:2016
	Additive Elements, Wear Metals & Contaminants by ICP-AES (Al, Ba, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Si, Ag, Na, Sn, Ti, V, Zn)	ASTM D5185
	Sulfated Ash from Lubricating Oils and Additives	ASTM D874 IP 163/12 ISO 3987:2010
	Kinematic Viscosity of Transparent & Opaque Liquids	ASTM D445 ISO 3104:1994
	Dynamic Viscosity & Density of Liquids by Stabinger Viscometer	ASTM D7042
	Calculating Viscosity Index from Kinematic Viscosity at 40°C & 100°C	ASTM D2270 IP 226/04 ISO 2909:2002
	Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter	ASTM D240
	Micro Carbon Residue	ASTM D4530

Schedule

Issue date: 01 July 2025
Valid Until: -



NO: SAMM 221

(Issue 2, 01 July 2025 replacement of SAMM 221 dated 01 July 2025)

Page: 4 of 5

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Acid Number by Potentiometric Titration	ASTM D 664 (Method A) IP 177/13
	Base Number by Potentiometric Perchloric Acid Titration	ASTM D2896 (Method B) IP 276/12
	Density, Relative Density (Specific Gravity), or API Gravity by Hydrometer Method	ASTM D1298 IP 160/99 ISO 3675:1998
	Distillation at Atmospheric Pressure	ASTM D86
	Calculated Cetane Index of Distillate Fuels	ASTM D976
	Oxidation Stability of Distillate Fuels Oil (Accelerated Method)	ASTM D2274 IP 388/97 ISO 12205:1995
	Sulphur by Energy-Dispersive X-Ray Fluorescence Spectrometry	ASTM D4294
	Water and Sediment in Middle Distillate Fuels by Centrifuge	ASTM D2709
	Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)	ASTM D4007
	Water Separability of Petroleum Oils and Synthetic Fluids (Demulsibility)	ASTM D1401
	Boiling Point of Engine Coolants	ASTM D1120
	Corrosiveness to Copper by Copper Strip Test	ASTM D130 ISO 2160: 1998
	Cold Soak Filtration Test (CSFT)	ASTM D7501
	Al, Si, V, Ni, Fe, Na, Ca, Zn, & P in Residual Fuel Oil	IP 501/05
	Total Sulfur by UV Fluorescence	ASTM D5453

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3003024> for the current scope of accreditation

Schedule

Issue date: 01 July 2025
Valid Until: -



NO: SAMM 221

(Issue 2, 01 July 2025 replacement
of SAMM 221 dated 01 July 2025)

Page: 5 of 5

BRANCH LOCATION	1. ITS TESTING SERVICES (M) SDN BHD PLO 590, JALAN KELULI 9, KAWASAN MIEL, PASIR GUDANG FASA IV ,,MALAYSIA
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
----------------------------------	--	---