

NO: SAMM 785

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LABORATORY LOCATION:
(PERMANENT LABORATORY)
CCIC P&O MALAYSIA SDN. BHD.
30, JALAN GEBENG 1/24
BANDAR INDUSTRI GEBENG JAYA
26100 KUANTAN, PAHANG
MALAYSIA

FIELD 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).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Iron Ore	Total Moisture as TM	ISO 3087:2020 (E) 5 th Edition
	Hygroscopic Moisture	ISO 2596:2006 (E) 5 th Edition - Karl Fisher Volumetric Method 2
	Iron as Fe	ISO 2597-2:2019 (E) 3 rd Edition
	Silica as SiO ₂	ISO 2598-1:1992 (E) 1 st Edition
	Alumina as Al ₂ O ₃	ISO 6830-1986 (E) 1 st Edition
	Phosphorous as P	ISO 2599:2003 (E) 3 rd Edition
	Sulphur as S	ISO 4689:1986 (E) 1 st Edition
Bauxite	Total Moisture as TM	ISO 9033:1989 (E) 1 st Edition
	Hygroscopic Moisture	ISO 8557:1985 (E) 1 st Edition
	Silica as SiO ₂	ISO 6607:1985 Part 2
	Alumina as Al ₂ O ₃	ISO 6994:1986 (E) 1 st Edition
	Iron Oxide as Fe ₂ O ₃	ISO 6609:1985 Part 2
	Loss on Ignition	ISO 6606:1986 Part 2

Signatories:

1. Lian Huai Wei
2. **Ooi Yan Jie

IKM No.: M/5921/9505/22

IKM No.: M/4962/8176/18

** Non Resident

Schedule

Issue date: 13 May 2022
Valid until: 4 October 2025



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LABORATORY LOCATION: CCIC P&O MALAYSIA SDN. BHD.
(BRANCH LABORATORY) 1, JALAN SULTAN ALAUDDIN 2,
BANDAR SULTAN SULEIMAN,
42000 PORT KLANG, SELANGOR,
MALAYSIA

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Palm Oil	Free Fatty Acid & Acid Value	MPOB p2.5:2004
		AOCS Ca 5a-40, AOCS Cd 3d-63
	Iodine Value	MPOB p3.2:2004
		AOCS Cd 1d-92
	Slip Melting Point	MPOB p4.2:2004
		AOCS Cc 3-25
	Lovibond Colour	MPOB p4.1:2004
		AOCS Cc 13e-92
	Moisture and Volatile Matter	MPOB p2.1 Part 1:2004
		AOCS Ca 2c-25
	Impurities	MPOB p2.2:2004
		AOCS Ca 3a-46
	DOBI	MPOB p2.9:2004
		ISO 17932:2011
	Beta Carotene	MPOB p2.6:2004
		ISO 17932:2011

Scan this QR Code or visit www.ism.gov.my/cab-df/rectories for the current scope of accreditation

Signatories:

1. Ooi Yan Jie

IKM No.: M/4962/8176/18

Note :

MPOB : Malaysia Palm Oil Board
AOCS : American Oil Chemist's Society

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LABORATORY LOCATION:
(BRANCH LABORATORY)CCIC P&O MALAYSIA SDN. BHD.
LOT 8095-1 WISMA ATB,
PUSAT PETROLEUM TANJUNG BIN,
82300 SERKAT, PONTIAN, JOHOR,
MALAYSIA

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Fuel Oil	Flash Point by PMCC	ASTM D93-20 (Method B)
	Water by Distillation	ASTM D95-13 (2018)
	Pour Point	ASTM D97-17b
	Kinematic Viscosity	ASTM D445-21
	Ash Content	ASTM D482-19
	Total Acid Number	ASTM D664-18e2
	Density, Relative Density, or API Gravity of Liquids by Digital Density Meter	ASTM D4052-18a
	Sulphur by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294-21
	Carbon Residue, Micro	ASTM D4530-15 (2020)
	Determination of Al, Si, V, Ni, Fe, Na, Ca, Zn and P in Residual Fuel by Ashing, Fusion and ICP-OES	IP 501:2015
	Determination of Hydrogen Sulphide in Fuel Oils – Rapid Liquid Phase Extraction Method	IP570:14a (2015)
	Total Sediment (Existent)	IP375:2011 (2018)
	Total Sediment (Accelerated)	IP390:2011 (2017) Proc B
Total Sediment (Potential)	IP390:2011 (2017) Proc A	

Signatories:

- | | |
|----------------------------|-------------------------|
| 1. Wi Chik Yong | IKM No.: M/5545/9003/21 |
| 2. Siti Asmidah bin Mahfot | IKM No.: L/2508/7480/16 |
| 3. * Tang Teck Ming | IKM No.: M/5546/9004/21 |

* Non-resident signatory

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LABORATORY LOCATION:
(BRANCH LABORATORY)

CCIC P&O MALAYSIA SDN. BHD.
BLOCK G, G-01 & 1-01, G-02 & 1-02,
JALAN RENGIT ½, TAMAN RENGIT SENTRAL,
81600 PENGERANG, JOHOR,
MALAYSIA

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Jet Fuel	Appearance	ASTM D4176-21a (Proc.1)
	Saybolt Color of Petroleum Products (Saybolt Chromometer Method)	ASTM D156-15
	Particulate Contamination in Aviation Fuels by Laboratory Filtration	ASTM D5452-20
	Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence	ASTM D5453-19a
	Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	ASTM D86-20b
	Determination of flash point - Abel closed-cup method	IP 170-14
	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter	ASTM D4052-18a
	Freezing Point of Aviation Fuels	ASTM D2386-19
	Corrosiveness to Copper from Petroleum Products by Copper Strip Test	ASTM D130-19 (2017)
	Thermal Oxidation Stability of Aviation Turbine Fuels	ASTM D3241-20c
	Determination of the Existent Gum Content of Aviation Turbine Fuel	IP 540-08 (2014)
	Gum Content in Fuels by Jet Evaporation	ASTM D381-19
	Determining Water Separation Characteristics of Aviation Turbine Fuels by Portable Separometer	ASTM D3948-20
	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298-12 (2017)
	Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294-21
Flashpoint by Pensky Martens Closed Cup Tester	ASTM D93-20 (Proc.A)	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Gasoline	Appearance	ASTM D4176-21a (Proc.1)
	Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence	ASTM D5453-19a
	Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	ASTM D86-20b
	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter	ASTM D4052-18a
	Corrosiveness to Copper from Petroleum Products by Copper Strip Test	ASTM D130-19 (2017)
	Gum Content in Fuels by Jet Evaporation	ASTM D381-19
	Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294-21
Gasoil / Diesel Fuel	Appearance	ASTM D4176-21a (Proc.1)
	Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence	ASTM D5453-19a
	Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	ASTM D86-20b
	Density, Relative Density, and API Gravity of Liquids by Digital Density Meter	ASTM D4052-18a
	Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298-12 (2017)
	Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294-21
	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 (Proc.A)

Signatories:

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| 1. Tang Teck Ming | IKM No.: M/5546/9004/21 |
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