

NO: SAMM 715

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LABORATORY LOCATION/ CENTRAL OFFICE:	Miri Crude Oil Terminal (MCOT) Laboratory, PETRONAS Carigali Sdn. Bhd. 98008 Miri, Sarawak , 98008, SARAWAK MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL AND MECHANICAL

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:	Miri Crude Oil Terminal (MCOT) Laboratory, PETRONAS Carigali Sdn. Bhd. 98008 Miri, Sarawak , 98008, Sarawak
FIELD(S) OF TESTING :	CHEMICAL,

SCOPE OF TESTING : CHEMICAL AND MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Crude Oil	Density & API	ASTM D 1298-12b
	Acid Number of Petroleum Products by Potentiometric	ASTM D664
	Density	ASTM D 5002-19
	Density @15 °C Relative Density (Specific Gravity) @60/60°F	ASTM D 1298 -" 12b (Reapproved 2017)
	Water	ASTM D 4928-12 (Reapproved 2018)
	Density and Relative Density	ASTM D 5002-19
	Water content	ASTM D 4928-12
	Salts in Crude Oil (Electrometric Method)	ASTM D3230
	Pour Point of Petroleum	None
		ASTM D97

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Products	None
	Acid Number of Petroleum	ASTM D664
	Products by Potentiometric Titration	None
	Density, Relative Density or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298
	Salts in Crude Oil (Electrometric Method)	ASTM D3230
	Pour Point of Petroleum Products	ASTM D97
	Acid Number of Petroleum Products by Potentiometric Titration	ASTM D664
	Density, Relative Density or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298
	Temperature	APHA 2550B, 2005
	None	None
	None	None
Effluent	None	None
	Aluminium (Al)	None
	None	None
	None	None
	Total Dissolved Solids	APHA - 2540C
	None	APHA - 4500F-B&C
	Metals:	USEPA Method 6010D; Inductive HCl Digestion)
	Calcium as Ca	None
	Sulphate as SO ₄	None
	Nitrite Nitrogen as N @ 30 °C for 3 Days	APHA 4110B
	None	None
	None	(by calculation)
	None	based on APHA -" 4500 Norg B, 21%
	pH	APHA 4500-H*B
	Temperature	APHA 2550 A, B
	Oxygen (Dissolved)	APHA 4500-0 G
	Free Chlorine	HACH Method 8021
	Temperature	APHA 2550 B
	pH	APHA 4500 H*B
	pH	APHA 4500 - H*B
Formation/produced Water	Temperature	APHA 2550B, 2012
Waste Water	Oil and grease	APHA 5520B: 2005
	None	None
	None	None
	None	APHA 9222 (2017)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Beta-BHC	None
	Total Suspended Solids	APHA - 2540D
	Mercury as Hg	APHA - 3112B
	Antimony as Sb	Coupled Plasma Optical Emission
	Chromium as Cr	None
	Bromide as Br	None
	Fecal Coliform	APHA - 9221E.1; 2017 (MPN
	Nitrate	APHA 4500 NOs 21° Edition
	None	(by Calculation)
	Formaldehyde	UHPLC based on EPA 1667 Rev. A
	None	APHA 3030 E & APHA 3030 F, 21%
	None	None
	None	None
	None	None
	liquor (MLSS)	None
	liquor (MLSS)	None

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