


NO: SAMM 751

Page: 1 of 4

LABORATORY LOCATION/ CENTRAL OFFICE:	Pentas Flora Sdn. Bhd. Lot 183, Jalan 5 Kompleks Perabot Olak Lempit 42700 Banting, Selangor , 42700, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
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:	Pentas Flora Sdn. Bhd. Lot 183, Jalan 5 Kompleks Perabot Olak Lempit 42700 Banting, Selangor , 42700, 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
Base Oil	Acenaphthylene =	None
	Additives by Coulometric Karl Fischer	None
	None	None
Coolant And Anti Rust	pH	ASTM D 1287-91
Engine Oil	Anthracene =	None
	Aluminium (Al)	None
	Barium (Ba)	None
	Boron (B)	None
	Cadmium (Cd) Calcium (Ca)	None
	Chromium (Cr) Copper (Cu)	ASTM D 5185-18
	Iron (Fe) Magnesium (Mg)	None
	Lead (Pb) Zinc (Zn)	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 751

Page: 2 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Fuel Oil	Membrane Patch Colorimetry	ASTM D 7843-12
	Poly-aromatic Hydrocarbons	USEPA 8270D
	Cleanliness and Compatibility Test	ASTM D4740-20 (Reapproved 2014) / Spot Test
	Ash Content	ASTM D482-13
	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
	Kinematic Viscosity of	ASTM D445
	Transparent and Opaque Liquids	None
	Water in Petroleum Products and Bituminous Materials by	ASTM D95
	Distillation	None
	Density, Relative Density or API Gravity of Crude Petroleum and	ASTM D1298
	Liquid Petroleum Products by	None
	Hydrometer Method	None
	Kinematic Viscosity of Transparent and Opaque Liquids	ASTM D445
	Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95
	Density, Relative Density or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298
Fuel Oil Lubricant Oil Base Oil Engine Oil	Aluminum, Al	ASTM D 4951-06
	Arsenic, As	ASTM D 4951-06
	Barium, Ba	ASTM D 4951-06
	Boron, B	ASTM D 4951-06
	Cadmium, Cd	ASTM D 4951-06

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 751

Page: 3 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Calcium, Ca	ASTM D 4951-06
	Chromium, Cr	ASTM D 4951-06
	Chlorine, Cl	ASTM D 4951-06
	Copper, Cu	ASTM D 4951-06
	Iron, Fe	ASTM D 4951-06
	Lead, Pb	ASTM D 4951-06
	Magnesium, Mg	ASTM D 4951-06
	Manganese, Mn	ASTM D 4951-06
	Molybdenum, Mo	ASTM D 4951-06
	Nickel, Ni	ASTM D 4951-06
	Phosphorus, P	ASTM D 4951-06
	Silicon, Si	ASTM D 4951-06
	Silver, Ag	ASTM D 4951-06
	Sodium, Na	ASTM D 4951-06
	Sulfur, S	ASTM D 4951-06
	Tin, Sn	ASTM D 4951-06
	Titanium, Ti	ASTM D 4951-06
	Vanadium, V	ASTM D 4951-06
	Zinc, Zn	ASTM D 4951-06
Fuel Oil Waste Oil Base Oil Lubricant Oil Engine Oil	Density - Hydrometer	ASTM D 1298-99
	Kinematic Viscosity	ASTM D 445-06
	Flash Point - PMCC	ASTM D 93-08
	Total Acid Number	ASTM D 664-07
Lubricant Oil	Acenaphthene =	None
	Chromium	None
	Total Acid Number	ASTM D 664-18e2
Lubricant Oil Engine Oil Base Oil	Water by Coulometric Karl Fischer Titration	ASTM D 6304-07
	Cloud Point	ASTM D 2500-05
	ASTM Color	ASTM D 1500-07
	Cold-Cranking Simulation Test	ASTM D 5293-08
	Refractive Index	ASTM D 1218-02
Waste Oil	Aluminum, Al	ASTM D 5185-05
	Arsenic, As	ASTM D 5185-05
	Barium, Ba	ASTM D 5185-05
	Boron, B	ASTM D 5185-05
	Cadmium, Cd	ASTM D 5185-05
	Calcium, Ca	ASTM D 5185-05
	Chromium, Cr	ASTM D 5185-05
	Chlorine, Cl	ASTM D 5185-05
	Copper, Cu	ASTM D 5185-05
	Iron, Fe	ASTM D 5185-05
	Lead, Pb	ASTM D 5185-05
	Magnesium, Mg	ASTM D 5185-05
	Manganese, Mn	ASTM D 5185-05
	Molybdenum, Mo	ASTM D 5185-05
	Nickel, Ni	ASTM D 5185-05
	Phosphorus, P	ASTM D 5185-05

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 751

Page: 4 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Silicon, Si	ASTM D 5185-05
	Silver, Ag	ASTM D 5185-05
	Sodium, Na	ASTM D 5185-05
	Sulfur, S	ASTM D 5185-05
	Tin, Sn	ASTM D 5185-05
	Titanium, Ti	ASTM D 5185-05
	Vanadium, V	ASTM D 5185-05
	Zinc, Zn	ASTM D 5185-05
	Benz(a)anthracene =	None
Waste Oil Fuel Oil	Water by Volumetric Karl Fisher Titration	ASTM D 4377-00

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