



Accreditation Scope

**Inspectorate International Limited (NAL 059)
Testing Laboratory, (ISO/IEC 17025:2017)**

National Industries Park, Jebel Ali – Dubai, UAE

Issue Date: 14-09-22

Expiry Date: 11-04-2025

Issue No: 06

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Microbiological	Water & Wastewater	Total Bacterial Count/ Heterotrophic Plate count (35°C) >1 cfu/ml	APHA 9215 B; 23rd edition, 2017	P
		Total Coliform & Faecal Coliform >1 cfu/100ml	APHA 9222 B & D: 23rd edition, 2017	
		Enterococci /Fecal Streptococci >1 cfu/100ml	APHA 9230 C: 23rd edition, 2017	
		Sampling, Enumeration & Detection of Legionella >1 cfu/100ml	BS EN ISO 11731- 2017 and RT-PCR method LSI-265 R0-06-19	
		E. coli >1 cfu/100ml	APHA 9222D & 9225: 23rd edition, 2017	
Microbiological	Water	Pseudomonas aeruginosa	APHA 9213E. 23 rd edition, 2017	P
Microbiological	Food & Swab	Aerobic plate count >1 cfu/g	USFDA BAM 8 th Ed Chpt.3, Jan 2001	P
		Enumeration of Coliforms >1 cfu/g, >3MPN/g	USFDA BAM 8 th Ed Chpt.4, Oct 2020	
		Enumeration of E. Coli >3MPN/g	USFDA BAM Chpt 4, Oct 2020	
		Enumeration of Staphylococcus aureus >1 cfu/g	USFDA BAM 8thEd Chpt.12 March 2016	
		Enumeration of Bacillus cereus >1 cfu/g	USFDA BAM 8thEd Chpt.14, Oct 2020	
		Detection & conformation of Salmonella Present/ Absent	USFDA BAM 8th Ed Chpt.5, March 2022, Internal method LS253 R1-06-19 (RT-PCR method)	



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Microbiological	Food & Swab	Detection and Enumeration of Vibrio parahaemolyticus >1 cfu/g	USFDA BAM 8 th Ed Chpt.9 May 2004	P
		E. coli O157:H7 Present/ Absent	AOAC 2000.13: 2019 / AOAC 2000.14:2019 (Reveal kit method)	
		Enumeration of E.coli (cfu/g)	ISO 16649-2:2001	
Chemical & Physical	Water & Waste Water	pH	APHA 4500 H+B: 23rd edition, 2017	
		Conductivity >1 µS/cm	APHA 2510 B: 23rd edition, 2017	
		Total Suspended Solids (TSS) >5 mg/L	APHA 2540 D: 23rd edition, 2017	
		Total Dissolved Solids (TDS) >5 mg/L	APHA 2540 C: 23rd edition, 2017	
		Chloride (Cl) >0.5 mg/L	APHA 4500 Cl B: 23rd edition, 2017	
		Sulphate (SO ₄) >2 mg/L	HACH 8051	
		Total Hardness >1 mg/L	APHA 2340 B: 23rd edition, 2017	
		Total Alkalinity >1 mg/L	APHA 2320 B: 23rd edition, 2017	
		Oil & Grease >5 mg/L	APHA 5520 B: 23rd edition, 2017	
		Chemical Oxygen Demand (COD) >6 mg/L	APHA 5220 D: 23rd edition, 2017	
		Bio Chemical Oxygen Demand >7 mg/L	APHA 5210 B 23rd edition, 2017	
Bio Chemical Oxygen Demand >7 mg/L	APHA 5210 D 23rd edition, 2017			



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Chemical	Water & Wastewater	Anions by Ion Chromatography 1. Fluoride, 2. Chloride 3. Nitrate, 4. Nitrite 5. Bromide, 6. Phosphate 7. Sulphate >0.04 mg/L	APHA 4110B 23rd edition, 2017 / EPA 300.1	
Chemical	Water	Metals by ICP-OES 1. Aluminum > 0.05mg/L 2. Antimony > 0.01mg/L 3. Arsenic >0.01 mg/L 4. Barium >0.01 mg/L 5. Beryllium >0.01 mg/L 6. Boron > 0.05 mg/L 7. Cadmium >0.002 mg/L 8. Calcium >0.01 mg/L 9. Chromium >0.01 mg/L 10. Cobalt >0.01 mg/L 11. Copper >0.05 mg/L- 12. Iron >0.05 mg/L 13. Lead >0.01 mg/L 14. Lithium >0.01 mg/L 15. Manganese >0.01 mg/L 16. Magnesium >0.01 mg/L 17. Mercury >0.001 mg/L 18. Molybdenum ->0.01 mg/L 19. Nickel >0.01 mg/L 20. Potassium >0.01 mg/L 21. Phosphorous >0.1 mg/L 22. Selenium >0.01 mg/L 23. Silver >0.05 mg/L 24. Silicon >0.05 mg/L 25. Sodium >0.01 mg/L 26. Strontium >0.01 mg/L 27. Titanium >0.01 mg/L 28. Vanadium >0.01 mg/L 29. Zinc >0.05 mg/L->0.05	APHA 3120 B, APHA 3030F 23rd edition, 2017/ EPA 200.7	P



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Chemical	Wastewater	Metals by ICP-OES 1. Aluminum >0.1 mg/L 2. Antimony >0.01 mg/L 3. Arsenic >0.01 mg/L 4. Barium >0.05 mg/L 5. Beryllium >0.05 mg/L 6. Boron >0.1 mg/L 7. Cadmium >0.01 mg/L 8. Calcium >1 mg/L 9. Chromium >0.05 mg/L 10. Cobalt >0.01 mg/L 11. Copper >0.05 mg/L 12. Iron >0.1 mg/L 13. Lead >0.05 mg/L 14. Lithium >0.1 mg/L 15. Manganese >0.05 mg/L 16. Magnesium >0.1 mg/L 17. Mercury >0.001 mg/L 18. Molybdenum >0.01 mg/L 19. Nickel >0.05 mg/L 20. Potassium >0.1 mg/L 21. Phosphorous >0.1 mg/L 22. Selenium >0.01 mg/L 23. Silver >0.05 mg/L 24. Silicon >0.1 mg/L 25. Sodium >1.0 mg/L 26. Strontium >0.1 mg/L 27. Titanium >0.1 mg/L 28. Vanadium >0.05 mg/L 29. Zinc >0.1 mg/L	APHA 3120 B, APHA 3030F 23rd edition, 2017/ EPA 200.7	P
Microbiological	Food, Feed	Detection of Pork species >0.1%	LSI 282 Pork specific gene in raw and processed food products R1-05-21	
	Food, Feed & Cosmetics	Detection of Pork species >0.1%	LSI 281 Lard and Lard derivatives and Pork gelatin R1-05-21	



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	Food, Feed & Cosmetics	Detection of GMO (Genetically Modified organism) >0.1%	LSI 026 Universal GMO Screening- RT PCR technique (Kit method) R1-05-21	
Chemical	Food & Feed Products	Moisture >0.1%	In House Method LSI 093 based on AOAC methods, 21 st edition: 2019 R2-04-19	P
		Ash >0.01%	In House Method LSI 091 based on AOAC methods, 21 st edition: 2019 R2-04-19	
		Protein >0.5%	In House Method LSI 090 based on BS ISO 1871:2009 & AOAC methods, 21 st edition: 2019 R2-04-19	
		Fat >0.01%	In House Method LSI 095 based on BS EN ISO 659:2009 & AOAC methods, 21 st edition: 2019 R2-04-19	
		Carbohydrates >0.5	AOAC Method 986.25, 21 st edition: 2019	
		Energy >0.5	In House Method LSI 092 based on USFDA's National Nutrient Data Bank R2-04-19	
		Sodium >0.1 mg/kg	In House Method LSI 080 based on AOAC methods (ICP-OES), 21 st edition: 2019 R4-04-19	
		Phosphate >0.1 mg/kg	In House Method LSI 081 R4-02-21 based on AOAC method 984.27 21 st edition: 2019 using ICP-OES	



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Chemical	Oil & Fats	Free Fatty Acid >0.01%	ISO 660:-2020	P
		Peroxide Value >0.1 mEq/Kg	ISO 3960:2017	
		Lovibond Colour >0.1 R, >1 Y	ISO 15305:1998	
		FAMES >0.1 % Butyric acid (C 4:0) Caproic acid (C 6:0) Caprylic acid (C 8:0) Capric acid (C 10:0) Undecanoic acid (C 11:0) Lauric acid (C 12:0) Tridecanoic acid (C 13:0) Myristic acid (C 14:0) Myristoleic acid (C 14:1) Pentadecanoic acid (C 15:0) cis-10 Pentadecanoic (C 15:1) Palmitic acid (C 16:0) Palmitoleic acid (C 16:1) Heptadecanoic acid (C 17:0) cis-10-Heptadecanoic acid (C 17:1) Stearic acid (C 18:0) Elaidic acid (C 18:1n9t) Oleic acid (C 18:1n9c) Linoelaidic acid(C18:2n6t) Linoleic acid (C 18:2n6c) Linolenic acid (C 18:3n6c)	AOAC 969.33 & AOAC 963.22, 21 st edition: 2019	



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		Linolenic acid(C18:3n3c) Arachidic(C 20:0) 11-Eicosenoic acid(C 20:1) Henicosenoic acid(C21:0) 11-14-Eicosadienoic acid(C20:2) 8-11-14-Eicosatrienoic acid (C20:3n6c) Arachidonic acid(C20:4n6c) Behenic acid(C 22:0) Erucic acid(C 22:1n9c) Tricosanoic acid(C23:0) 11-14-17-Eicosatrienoic acid (C20:3n3c) 5-8-11-14-17-Eicosopentanoic acid (C20:5n3c) Lignoceric acid(C 24:0) Nervonic acid(C 24:1n9c) cis 13,16-Docosadienoic acid(C 22:2) 4-7-10-13-16-19-Decosahexanoic acid (C22:6n3c)	AOAC 969.33 & AOAC 963.22, 21 st edition: 2019	
Chemical	Fresh Fruits and Vegetables	Pesticide residues by LC-MS/MS >5µg/kg Cyromazine Methamidophos Acephate Propamocarb Omethoate Aminocarb Dinotefuran Pymetrozine Aldicarb/sulfoxide Butoxycarboxim	In House Method LSI 029 R2-06-21	P



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		<p>Aldicarb Sulfone Flonicamid Nitenpyram Methomyl Oxamyl Carbendazim Thiamethoxam Acibenzolar-S-methyl Monocrotophos Dicrotophos Clothianidin Thiabendazole Imidacloprid Trichlorfon Fenuron Dimethoate Fuberidazole Dioxacarb Vamidothion 3-Hydroxycarbofuran Acetamiprid Cymoxanil Mesotrione Mexacarbate Thiacloprid Mevinphos E and Z Butocarboxim Tricyclazole Aldicarb Ethirimol Oxadixyl Carbetamide Pirimicarb Thiophanate-methyl Metribuzin Thidiazuron Propoxur Bendiocarb Formetanate HCL Carbofuran</p>		



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		Pyracarbolid Tebuthiuron Sulfentrazone Carboxin Simetryn Thiofanox Carbaryl Monolinuron Ethiofencarb Diuron Imazalil Secbumeton Chlortoluron Prometon Metobromuron Propham Terbumeton Isoprocab Methabenzthiazuron Flutriafol Isoproturon Fluometuron Metalaxyl Forchlorfenuron Ametryn Methoprotryne Pyrimethanil Desmedipham Adduct Desmedipham isomer Fenpropimorph Fenobucarb Linuron Diethofencarb Ethofumesate Spiroxamine A and B Siduron isomer Cis and Trans Methiocarb Furalaxyl Nuarimol Prometryn		



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		Halofenozide Ethiprole Fenamidone Promecarb Terbutryn Isoprothiolane Azoxystrobin Boscalid Fludioxonil Paclobutrazol Cyproconazole A and B Dimethomorph A and B Mepronil Flutolanil Triadimefon Triazophos Myclobutanil Mandipropamid Triadimenol Isomer A and B Chloroxuron Mefenacet Methoxyfenozide Mepanipyrim Bromuconazole Cis and Trans Fluquinconazole Fenhexamid Bifenazate Phenmedipham Iprovalicarb isomer A and B Triticonazole Etaconazole A and B Fenarimol Cyprodinil Bupirimate Flufenacet Spirotetramat Tetraconazole Butafenacil Epoxiconazole Fluoxastrobin		



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		Cyazofamid Diflubenzuron Fenbuconazole Flusilazole Neburon Fipronil Fenoxycarb Dimoxystrobin Rotenone Diclobutrazol Tebufenozide Picoxystrobin Penconazole Kresoxim-methyl Carfentrazone-ethyl Tebuconazole Zoxamide Alanycarb Propiconazole A and B Prothioconazole Benalaxyl Prochloraz Hexaconazole Metconazole Famoxadone Triflumuron Pyraclostrobin Clofentezine Thiobencarb Bitertanol (Baycor) Diniconazole Benzoximate Pencycuron (monceren) Triflumizole Ipconazole isomer A Ipconazole isomer B Indoxacarb Trifloxystrobin Clethodim E and Z Hexaflumuron		



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		Novaluron Benfuracarb Buprofezin Furathiocarb Tebufenpyrad Teflubenzuron Piperonyl butoxide Quinoxifen Fluazinam Pyriproxyfen Temephos Chlorantranilinprole Hexythiazox Lufenuron Spiromesifen Propargite Etoxazole Flufenoxuron Spirodiclofen Fenpyroximate Fenazaquin Pyridaben		
Chemical	Fresh Fruits and Vegetables	Pesticides by GC-MS/MS >10µg/kg Allidochlor Dichlorobenzonitrile, 2,6-Biphenyl Mevinphos, E- 3,4-Dichloroaniline Pebulate Etridiazole cis-1,2,3,6-Tetrahydrophthalimide N-(2,4-dimethylphenyl)formamide Methacrifos Chloroneb 2-Phenylphenol Pentachlorobenzene Propachlor Tecnazene Diphenylamine	In House Method SOP 085 R3-06-2021	P



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		Cycloate 2,3,5,6-Tetrachloroaniline Chlorpropham Ethalfuralin Trifluralin Benfluralin Sulfotep Diallate I Phorate Diallate II BHC-alpha (benzene hexachloride) Hexachlorobenzene Dichloran Pentachloroanisole Atrazine Clomazone BHC-beta Profluralin Terbutylazine BHC-gamma (Lindane, gamma HCH) Terbufos Propyzamide Pentachloronitrobenzene Fonofos Pentachlorobenzonitrile Diazinon Pyrimethanil Fluchloralin Tefluthrin Disulfoton Terbacil Isazofos BHC-delta Triallate Chlorothalonil Endosulfan ether Pentachloroaniline Propanil Dimethachlor		



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		Acetochlor Transfluthrin Vinclozolin Chlorpyrifos-methyl Parathion-methyl Tolclofos-methyl Alachlor Propisochlor Heptachlor Metalaxyl Ronnel Prodiamine Pirimiphos-methyl Fenitrothion Linuron Malathion Dichlofluanid Pentachlorothioanisole Metolachlor Fenthion Aldrin Anthraquinone Chlorpyrifos Parathion Triadimefon Dichlorobenzophenone, 4,4-' DCPA (Dacthal, Chlorthal-dimethyl) Fenson MGK-264-1 Diphenamid Bromophos Pirimiphos-ethyl Isopropalin Cyprodinil Isodrin MGK-264-2 Pendimethalin Metazachlor Penconazole Heptachlor exo-epoxide		



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		Chlorzolinate Tolyfluanid Chlorfenvinphos Bromfenvinfos-methyl Fipronil Quinalphos Triadimenol Procymidone Triflumizole E Folpet Chlorbenside Bromophos-ethyl Chlordane-cis DDE-o,p' Paclobutrazol Tetrachlorvinphos Endosulfan I (alpha isomer) Chlordane-trans Flutriafol Fenamiphos Chlorfenson Nonachlor, trans- Bromfenvinfos Flutolanil Iodofenphos Prothiofos Profenofos Pretilachlor DDE-p,p' Oxadiazon Fludioxonil Dieldrin Oxyfluorfen Tricyclazole Myclobutanil Flusilazole DDD-o,p' Bupirimate Fluazifop-p-butyl Nitrofen		



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		Ethylan Chlorfenapyr Endrin Chlorobenzilate Endosulfan II (beta isomer) DDD-p,p' Ethion DDT-o,p' Nonachlor, cis- Chlorthiophos Endrin aldehyde Sulprofos Triazophos Carfentrazone-ethyl Carbophenothion Methoxychlor olefin Edifenphos Endosulfan sulfate DDT-p,p' Norflurazon Lenacil Methoxychlor, o,p-' Tebuconazole Hexazinone Propargite Piperonyl butoxide Resmethrin-Trans Resmethrin-cis Nitalin Tetramethrin I Iprodione Endrin ketone Pyridaphenthion Bifenthrin Tetramethrin II Bromopropylate EPN Phosmet Methoxychlor, p,p-' Fenpropathrin		



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		<p>Tebufenpyrad Phenothrin I Phenothrin II Tetradifon Phosalone Pyriproxyfen Leptophos Azinphos-methyl Cyhalothrin (Lambda) Mirex Acrinathrin-2 Acrinathrin-1 Fenarimol Pyrazophos Azinphos-ethyl Pyraclufos Permethrin, (1R)-trans- Permethrin, (1R)-cis- Pyridaben Fluquinconazole Coumaphos Prochloraz Cyfluthrin I Cyfluthrin II Cyfluthrin III Cyfluthrin IV Cypermethrin I Cypermethrin IV Cypermethrin II Cypermethrin III Flucythrinate I Ethofenprox Flucythrinate II Fluridone Fenvalerate I Fluvalinate-tau II Fenvalerate II Fluvalinate-tau I Deltamethrin-I</p>		



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Microbiological	Indoor Air Quality	Deltamethrin-II		P
		Total Bacterial Count >1 Yeast & Mould >1	CMMEF Chapter 3 Edition 5/ LSI 082 Air Sampling -R2-09-18	
Environmental	Indoor Air Quality	Total suspended Particulate Matter (TSPM) Respirable Suspended Particulate Matter (RSPM-PM10, PM7, PM4, PM2.5, PM1) 0 – 3,000,000 particles per cubic foot (105,900 particles/L)	In house method LSI 601 R5-03-19 using Aerocet 531S by MetOne	P
		Nitrogen Dioxide (NO2) 0.00-20.0 ppm	In house method LSI 619 using Graywolf advanced sense R0-06-22	
		Sulphur Dioxide (SO2) 0.00-30.0 ppm		
		Carbon Monoxide (CO) 0.0-750.0 ppm		
		Carbon Dioxide (CO2) 0.00-1000.0 ppm		
		Oxygen (O2) 0-25 %		
		Hydrogen Sulphide (H2S) 0.00-50.0 ppm		
		Formaldehyde (CH2O) 0.00-10.0 ppm		
		Ozone (O3) 0.00-1.0 ppm		
		Ammonia (NH3) 0.00-50.0 ppm		
		Total Volatile Organic Compound (TVOC) 0.00-30.0 ppm		
		Temperature -5 to 55 °C		
		Relative Humidity 0 – 100 %		



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Environmental	Noise	Occupational Noise levels 25 – 140 dB	ISO 1996-1:2016-03-01(Third edition) & ISO 1996-2:2017-07(Third edition)	P
	Outdoor Air Quality	Respirable Suspended Particulate Matter (RSPM-PM10, PM2.5)	USEPA- eCFR,;Title 40:Part 50 and 53:2014	
	Outdoor Air Quality	Nitrogen Dioxide (NO2) 0.00-20.0 ppm	In-house method using LSI 600 using YesPlus LGA R7-06-22	
		Sulphur Dioxide (SO2) 0.00-30.0 ppm		
		Carbon Monoxide (CO) 0.00-750.0 ppm		
		Carbon Dioxide (CO2) 0.00-1000.0 ppm		
		Oxygen (O2) 0-25 %		
		Hydrogen Sulphide (H2S) 0.00-50.0 ppm		
		Formaldehyde (CH2O) 0.00-10.0 ppm		
		Ozone (O3) 0.00-1.0 ppm		
		Ammonia (NH3) 0.00-50.0 ppm		
		Total Volatile Organic Compound (TVOC) 0.00-30.0 ppm		
		Temperature -5 to 55 °C		
		Relative Humidity 0 – 100 %		
Illumination	Light intensity (Lux)	BS EN 12464-1:2011		



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Environmental	Flue gas monitoring/ Stack emission monitoring	Oxygen (0-21%), Carbon Dioxide (0-20%), Carbon monoxide (0-300ppm), Nitrogen dioxide (0-200ppm), Nitrous monoxide (0-10000ppm), Oxides of Nitrogen Sulphur Dioxide (0-2000rpm), Hydrocarbons(0-500ppm)	In house method LSI 609 R0-01-21 using MRU Optima 7		
		Stack emission monitoring	Temperature	In house method LSI 609 R0-01-21 using Lata Envirotech Stack Analyzer	P
			Moisture content%		
			Stack Gas velocity		
			Stack Gas flowrate		
Total Particulate matter					
Chemical & Physical	Transformer oil	Dissolved Gas Analysis (DGA) Range Not Specified In Method C. Minimum Detection Limit in ppm H2 0.6 O2 11.0 N2 11.2 CH4 0.06 CO 0.09 CO2 0.1 C2H2 0.05 C2H4 0.04 C2H6 0.04	ASTM D3612C-02(2017)		
		Moisture	ASTM D1533-20		



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
		Below 100 % relative saturation of water in oil.		P
		Dielectric Breakdown voltage Max 75 KV	ASTM D1816-12(2019) / IEC 60156:2018	
		Interfacial Tension 0 to 100 mN/m	ASTM D971-20	
		Density 0.6500 Kg/L to 1.100Kg/L	ASTM D4052 – 18a	
		Flash Point - COC above 79 °C (175 °F) and below 400 °C (752 °F)	ASTM D92-18	
		Pour Point, 45°C to -42°C	ASTM D97-17b	
		Colour 0.5 to 8.0	ASTM D1500-12(2017)	
		Total Acid Number 0.02 to 250.0 mg of KOH/g	ASTM D974-21	
Chemical & Physical	Petroleum Distillate (Gas Oil)	Flash Point - PMCC 40 °C to 370 °C	ASTM D93-20	
		Total Sulphur Content 17 mg/kg to 4.6 mass %.	ASTM D4294-21	
		Copper Corrosion Range is not specified. Only rating classification only.	ASTM D130-19	
		Distillation (Up to 400 °C)	ASTM D86-20b	
		Density 0.6500 Kg/L to 1.100Kg/L	ASTM D4052 – 18a	
		Pour Point 45°C to -42°C	ASTM D97-17b	



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		Colour 0.5 to 8.0	ASTM D1500-12(2017)	P
		Hydrocarbon Types in Liquid Petroleum Products by FIA 5 % to 99 % by volume aromatics, 1 % to 55 % by volume olefins, and 1 % to 95 % by volume saturates	ASTM D1319-20a	
		Cloud Point of Petroleum Products 49 °C to -42°C.	ASTM D2500-17a	
		Carbon Residue (Micro Method) 0.01 % to 30 % (m/m).	ASTM D4530 - 15(2020)	
		Total Acid Number 0.02 to 250.0 mg of KOH/g	ASTM D974-21	
		Electrical Conductivity 1 to 2000 pS/m	ASTM D2624 – 21a	
		Water Content 20 mg/kg to 25 000 mg/kg	ASTM D6304 - 20	
Chemical & Physical	Petroleum Distillate (Jet A1)	Total Sulphur Content 17 mg/kg to 4.6	ASTM D4294-21	
		Copper Corrosion Range is not specified. Only rating classification only.	ASTM D130-19	
		Distillation (Up to 400 °C)	ASTM D86-20b	
		Density 0.6500 Kg/L to 1.100Kg/L	ASTM D4052 – 18a	
		Mercaptan Sulphur 0.0003 % to 0.01 % by mass	ASTM D3227-16	



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
		Hydrocarbon Types in Liquid Petroleum Products by FIA 5 % to 99 % by volume aromatics, 1 % to 55 % by volume olefins, and 1 % to 95 % by volume saturates	ASTM D1319-20a	P
		Saybolt Colour +30 to -16	ASTM D156 - 15	
		Freezing Point +20 °C to between 65°C and 70°C	ASTM D2386 - 19	
		Electrical Conductivity 1 to 2000 pS/m	ASTM D2624 – 21a	
		Flash Point - Abel closed-cup method -8.5°C to 75.0°C	IP 170:2021	
Chemical & Physical	Gasoline	Total Sulphur Content 17 mg/kg to 4.6 mass %.	ASTM D4294-21	P
		Distillation (Up to 400 °C)	ASTM D86-20b	
		Copper Corrosion Range is not specified. Only rating classification only.	ASTM D130-19	
		Density 0.6500 Kg/L to 1.100Kg/L	ASTM D4052 – 18a	
		Mercaptan Sulphur 0.0003 % to 0.01 % by mass	ASTM D3227-16	
		Benzene Content 0.12 % to 5.2 % by volume	ASTM D3606-21	



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
		Hydrocarbon Types in Liquid Petroleum Products by FIA 5 % to 99 % by volume aromatics, 1 % to 55 % by volume olefins, and 1 % to 95 % by volume saturates	ASTM D1319-20a	
		Flash Point - PMCC 40 °C to 370 °C	ASTM D93-20	
		Total Sulphur Content 17 mg/kg to 4.6 mass %.	ASTM D4294-21	
		Pour Point 45°C to -42°C	ASTM D97-17b	
	Fuel Oil	Flash Point - PMCC 40 °C to 370 °C	ASTM D93-20	
		Total Sulphur Content 17 mg/kg to 4.6 mass %.	ASTM D4294-21	
		Pour Point 45°C to -42°C	ASTM D97-17b	
		Metals Element Range mg/kg Aluminum 5 to 150 Silicon 10 to 250 Sodium 1 to 100 Vanadium 1 to 400 Nickel 1 to 100 Iron 2 to 60 Calcium 3 to 100 Zinc 1 to 70 Phosphorus 1 to 60	IP 501/05 (2019)	



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
		Carbon Residue (Micro Method) 0.01 % to 30 % (m/m).	ASTM D4530 - 15(2020)	
Chemical & Physical	Lubricating Oil	Kinematic Viscosity 5 cSt to 50 cSt @ 100°C 6cSt to 600 cSt@40°C	ASTM D445-21e1	P
		Multi-element determination by ICP-AES (mg/kg) Aluminum 1–40 Barium 1–4 Boron 1–30 Calcium 1–9000 Chromium 1–40 Copper 1–160 Iron 1–140 Lead 1–160 Magnesium 1–1700 Manganese 1–700 Molybdenum 1–200 Nickel 1–40 Phosphorus 1–1000 Potassium 1–1200 Silicon 1–50 Silver 1–50 Sodium 1–70 Tin 1–40 Titanium 1–40 Vanadium 1–50 Zinc 1–1600	ASTM D5185-18	
		Total Acid Number 0.02 to 250.0 mg of KOH/g	ASTM D974-21	
		Total Base Number up to 300 mg KOH/g	ASTM D2896-21	



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical & Physical	Lubricating Oil	Water Content 20 mg/kg to 25 000 mg/kg	ASTM D6304 - 20	
		Density 0.6500 Kg/L to 1.100Kg/L	ASTM D4052 – 18a	
		Flash Point - COC above 79 °C (175 °F) and below 400 °C (752 °F)	ASTM D92-18	
		Pour Point 45°C to -42°C	ASTM D97-17b	
		Colour 0.5 to 8.0	ASTM D1500-12(2017)	
END				