# Accreditation Scope

## Geochem Middle East FZE, NAL 049

## Testing Laboratory, (ISO/IEC 17025:2017)

### Free zone Phase 1, Fujairah, UAE

**Issue Date: 11.01.2022** **Expiry Date: 28.09.2024**

**Issue No: 07**

| 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 | Distillate Marine Fuels (Diesel) | Appearance | Visual, ISO 8217, Section 7.6(2017) | P |
| | | Density @ 15° C (Hydrometer) 0.6000 - 1.1000Kg/L | ISO 3675(1998)/ ASTMD1298-12b(2017)/ IP160(1998) | |
| | | Density @ 15° C (Density meter) 0.6000 - 1.1000 Kg/L | ISO12185(1996)/ ASTMD4052(2018)/IP365(1996) | |
| | | Kinematic viscosity @ 40° C; 0.2 to 300000mm$^2$/sec | ISO 3104(2020)/ ASTM D 445-21/ IP71(2017) | |
| | | Pour Point -38 to +50° C | ISO 3016(2019)/ ASTM D 97-17b/ IP15-17 | |
| | | Flash Point 40 to 360 ° C | ISO 2719 A(2016)/ ASTM D93(2018) Methods A and B/ IP34(2002) | |
| | | Water 0 to 25% v | ISO 3733(1999)/ ASTM D 95-13(Reapproved 2018)/ IP74(2000) | |
| | | Ash 0.001 to 0.180%m | ISO 6245(2001)/ ASTM D482:19/ IP4/05(2012) | |
| | | Cetane Index 32.5 to 56.5 | ISO 4264(2018)/ ASTM D 4737-10(2016)/ IP 380(14) | |
| | | Sulfur 17 ppm to 5.0%m | ISO 8754(2003)/ ASTM D 4294-16/ IP336/04(2014) | |
| | | Hydrogen Sulphide 0.40 ppm to 15 ppm | IP 570a/15/ ASTM D 7621-16 Method A | |
| | | Acid Number 0.1 to 150 mg/g KOH | ASTM D 664-18e2/ IP 177-13 | |



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|---|---|---|---|---|
| Chemical | Distillate Marine Fuels (Diesel) | Total Sediment by Hot filtration<br>0 to 0.4 %m | ISO 10307-1(2009)/ ASTM D 4870-18/ IP375/11 | P |
| | | Carbon Residue micro method on the 10% volume distillate residue<br>0.10 to 30%m | ISO 10370(2014)/ ASTM D 4530-15(Reapproved 2020)/ IP398-15 | |
| | | Carbon Residue micro method<br>Range: 0.10 to 30%m | ISO 10370(2014)/ ASTM D 4530-15(Reapproved 2020)/ IP398-15 | |
| | | Distillation<br>0 to 400 °C | ISO 3405(2019)/ ASTM D86-20b/ IP123:2001(E) | |
| Chemical | Residual Marine Fuels (Fuel Oil) | Density @ 15° C (Hydrometer)<br>0.6000 - 1.1000 Kg/L | ISO 3675(1998)/ ASTMD1298-12b(2017)/ IP160(1998) | P |
| | | Density @ 15° C (Density meter)<br>0.6000 - 1.1000 Kg/L | ISO 12185(19960/ ASTM D 4052(2018)/ IP 365(1996) | |
| | | Kinematic viscosity @ 50° C<br>0.2 to 300000mm²/sec | ISO 3104(2020)/ ASTM D 445-21/ IP71(2017) | |
| | | Kinematic viscosity @ 100°C<br>0.2 to 300000mm²/sec | ISO 3104(2020)/ ASTM D 445-21/ IP71(2017) | |
| | | Pour Point<br>-38 to +50° C | ISO 3016(2019)/ ASTM D 97-17b/ IP15-17 | |
| | | Flash Point<br>-40°C to 360°C | ISO 2719 B(2016)/ ASTM D93-20 Procedure B / IP34(2002) | |
| | | Water<br>0 to 25% v | ISO 3733(1999)/ ASTM D 95-13(Reapproved 2018)/ IP74(2000) | |



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|---|---|---|---|---|
| Chemical | Residual Marine Fuels (Fuel Oil) | Ash<br>0.001 to 0.180%m | ISO 6245(2001)/ ASTM D482:19/ IP4/05(2012) | P |
| | | CCAI<br>800-930 | ISO 8217, Annex F method(2017) | |
| | | Sulfur<br>17 ppm to 5.0%m | ISO 8754(2003)/ ASTM D 4294-16/ IP336/04(2014) | |
| | | Hydrogen Sulphide<br>0.40 ppm to 15 ppm | IP 570a/15/ ASTM D 7621-16 Method A | |
| | | Acid Number<br>0.1 to 150 mg/g KOH | ASTM D 664-18e2/ IP 177-13 | |
| | | Total Sediment Aged<br>0 to 0.4 %m | ISO 10307-2 B(2009)/ ASTM D 4870 B(2018) / IP 390 B(2011) | |
| | | Total Sediment Potential<br>0 to 0.4 %m | ISO 10307-2 A(2009)/ ASTM D 4870A(2018) | |
| | | Carbon residue: Micro method<br>0.10 to 30%m | ISO 10370(2014)/ ASTM D 4530-15(Reapproved 2020)/ IP398-15 | |
| | | Aluminum (5 - 150 ppm) | IP501/05 | |
| | | Calcium (3 - 100 ppm) | | |
| | | Silicon (10 - 250 ppm) | | |
| | | Sodium (1 - 100 ppm) | | |
| | | Vanadium (1 - 400 ppm) | | |
| | | Zinc (1 - 70 ppm) | | |
| | | Iron (2 - 60 ppm) | IP501/05 | P |
| | | Nickel (1 - 100 ppm) | | |
| | | Phosphorous (1 - 70 ppm) | | |
| END | | | | |



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