



Green
FUEL MAX
Marine

New Generation **Green** Fuel Additive



Beyond Additives – Fuel & System Optimization



Derived from Organic Australian Ingredients – Non-Hazardous and Eco-Safe Additive



Cleaning, Lubricating, Biocidal, and Anti-Corrosive Multi-Functional Additive



Improve Efficiency and Reduce Emissions by 5%–10%



Certified by ISO, SGS, Intertek, and Approved for Both Vehicle and Marine Engines



Covered by AUD 10 Million Product Liability Insurance





Derived from Native Australian Hardwood Species and Produced
via a Unique Extraction Technology-GFX

From Nature to Innovation



Next-Generation Green Fuel Additive



Jointly Developed with Major Shipowners —
GFX MARINE Fuel Additive

2021yr

2025yr



New Strategy
New Partnerships
New Ambitions



Production & Validation Finalized – February
Achieved Optimal Level across all tested parameters.

1988yr



GFX-Achieved Great Success
with Land-Based Applications in
Australia



2019yr

Common Issues and Hazards of Fuel Oil



Fuel Sludge Contamination



Fuel Line Blockage



Increased Separator Load; Frequent Discharge; Potential Damage



Daily Service Tank Outlet Blockage



High-Pressure Fuel Pump Plunger Sticking and Damage



Fuel Injector Corrosion, Coking, and Poor Atomization



Exhaust Valve Carbon Buildup



Piston Crown Carboning and Localized Overheating



Generator Fuel Pump Failure



Boiler Ignition Difficulty



Incomplete Combustion: Excessive Black Smoke, Emission of Harmful Gases (COx, NOx)



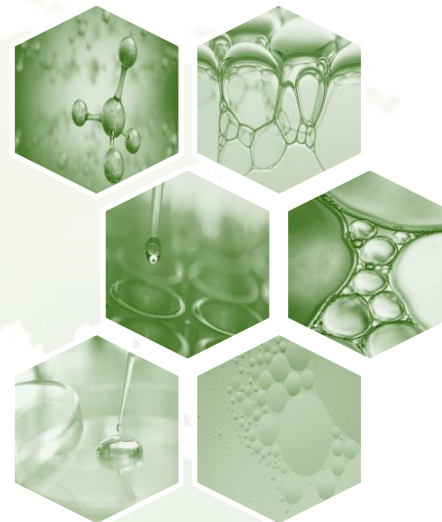
Whether for marine or automotive use, fuel oil is refined from crude oil and inevitably contains asphalt, wax, moisture, residual carbon, ash, and both biological and mechanical impurities. Over time, microbial growth (“fuel bugs”) can form, creating sludge and wax deposits that harm the fuel system.

During operation, these impurities infiltrate the fuel system, increasing the load on purifiers and causing blockages in pipelines, filters, fuel pumps, and injectors. This results in poor atomization, incomplete combustion, carbon buildup in combustion chambers, elevated exhaust temperatures, and excessive black smoke. In severe cases, this can result in boiler ignition failure, generator outages, or main engine shutdowns, posing serious safety risks and potential equipment damage.

Types of Fuel Additives

Fuel additives have emerged in response to various fuel-related issues. Traditional additives primarily address single problems or limited combinations of issues. Based on their functions, the fuel additive market can be categorized as follows:

Carbon Deposit Control Additive	Thermal Conductivity Enhancer	Lubricity Improver
Cold Flow Improver	Cetane Number Improver (CNI)	Corrosion Inhibitor
Stability Enhancer	Dye Additive	Anti-freeze Agent
Suppressor Additive	CN16 Improver (Cetane Number 16 Enhancer)	

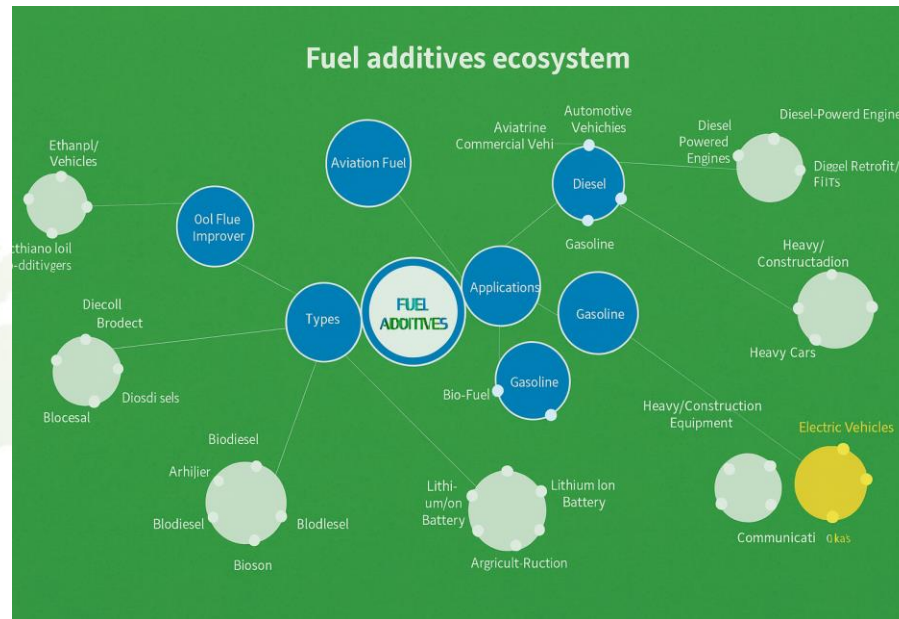


Fuel Additives Market

The global fuel additives market is projected to grow at a compound annual growth rate (CAGR) of 3.6% from 2025 to 2029. Market size (USD billions): From \$6.8 billion in 2025 to \$8.0 billion by 2029.



■ Fuel Additives Market Growth (USD Billion)



GFX's Function and Mechanism



Combustion Optimization

Principles	Effects
❑ Reduces surface tension by lowering interfacial pressure via non-ionic surfactants, enhancing fuel atomization ❑ Micro-explosion effect: polyol absorbs moisture and forms micro water droplets to promote flame propagation ❑ Improves oxidative stability of fuel	✓ Finer atomization and more uniform combustion; reduces incomplete combustion ✓ Enhances ignition rate and combustion completeness, improving energy conversion efficiency ✓ Lowers combustion residue and reduces emissions of pollutants such as PM, NOx, etc.

Actual Result: Fuel savings of **5–10%**, faster flame propagation, improved engine power, cleaner exhaust

System Cleaning & Impurity Management

Principles	Effects
❑ Disperses asphaltenes, sludge, and gums into nano-scale particles ❑ Inhibits microbial growth by disrupting biofilm structures ❑ Improves water separation efficiency (via polyol-based moisture absorption and pre-separation treatment)	✓ Reduces carbon buildup and injector fouling, improving combustion chamber cleanliness ✓ Prevents microbial contamination (e.g. "fuel bugs"), maintaining long-term storage stability ✓ Inhibits emulsification, cold corrosion, and cold-start anomalies such as "cold explosion"

Actual Result: Reduces failure rates and maintenance costs, while improving system reliability

GFX's Function and Mechanism

Lubricity Enhancer

Principles	Effects
❑ Uses plant-based lubricating agents combined with polyol ❑ Reduces the risk of lubricity degradation in low-sulfur fuels	✓ Reduces wear and component damage ✓ Extends the service life of injectors, pumps, and valves ✓ Protects critical engine components

Actual Result: Longer maintenance intervals, extended equipment lifespan, and reduced costs

Low-Temperature & Anti-Waxing Performance

Principles	Effects
❑ Surfactants disrupt wax crystal structures ❑ Polyol absorbs moisture and lowers viscosity	✓ Lowers pour point and prevents wax blockage in fuel lines ✓ Enhances fluidity and cold-start reliability

Actual Result: Improves winter/cold-region fuel system stability for ships and vehicles

Economic and Environmental Dual Value

Principles	Effects
❑ Reduces residual carbon, NOx, and particulate emissions ❑ Lowers fuel viscosity and improves atomization	✓ Helps comply with IMO/MARPOL regulations and qualify for green taxation standards ✓ Promotes more complete combustion and reduces fuel costs

Actual Result: Energy savings + emission reduction; boosts carbon credit ratings and bidding competitiveness

Test Reports for Various Fuel Types



Gasoline (95 Octane) Test

Certificate of Analysis: SG21-01373.001

LOCATION :	NA	PRODUCT DESCRIPTION :	Gasoline
SAMPLE SOURCE :	Petrol 95	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	18/Mar/2021
SAMPLED :	—	COMPLETED :	19/Mar/2021
ANALYSED :	18/Mar/2021 - 19/Mar/2021		
SAMPLE NUMBER :	1173360		

Diesel Fuel Test

Certificate of Analysis: SG21-01367.001

LOCATION :	NA	PRODUCT DESCRIPTION :	Diesel Oil
SAMPLE SOURCE :	Diesel	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	18/Mar/2021
SAMPLED :	—	COMPLETED :	19/Mar/2021
ANALYSED :	18/Mar/2021 - 19/Mar/2021		

Marine High Sulfur Fuel Oil (Without GFX)

Certificate of Analysis: SG21-00235.002A

LOCATION :	NA	PRODUCT DESCRIPTION :	Low Sulfur Fuel Oil
SAMPLE SOURCE :	WITHOUT GREEN FUEL MAX MARINE	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	13/Jan/2021
SAMPLED :	—	COMPLETED :	27/Feb/2021
ANALYSED :	12/Jan/2021 - 18/Jan/2021		
SAMPLE NUMBER :	1171782		

Marine High Sulfur Fuel Oil (With GFX)

Certificate of Analysis: SG21-00235.001A

LOCATION :	NA	PRODUCT DESCRIPTION :	Low Sulfur Fuel Oil
SAMPLE SOURCE :	WITH GREEN FUEL MAX MARINE	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	12/Jan/2021
SAMPLED :	—	COMPLETED :	27/Feb/2021
ANALYSED :	12/Jan/2021 - 18/Jan/2021		
SAMPLE NUMBER :	1171781		

Marine Low Sulfur Fuel Oil (Without GFX)

Certificate of Analysis: SG21-00594.001A

LOCATION :	NA	PRODUCT DESCRIPTION :	Fuel Oil
SAMPLE SOURCE :	HSFO	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	02/Feb/2021
SAMPLED :	—	COMPLETED :	27/Feb/2021
ANALYSED :	02/Feb/2021 - 04/Feb/2021		
SAMPLE NUMBER :	1172352		

Marine Low Sulfur Fuel Oil (With GFX)

Certificate of Analysis: SG21-00594.002A

LOCATION :	NA	PRODUCT DESCRIPTION :	Fuel Oil
SAMPLE SOURCE :	HSFO With Green Fuel Max Marine	SAMPLE BY :	Client
SAMPLE TYPE :	NA	RECEIVED :	02/Feb/2021
SAMPLED :	—	COMPLETED :	27/Feb/2021
ANALYSED :	02/Feb/2021 - 04/Feb/2021		
SAMPLE NUMBER :	1172353		

Test Report Sample (Right Panel)

PROPERTY	METHOD	RESULT UNITS
Flash Point-Pensky-Martens Closed Cup	ISO 2719:2016	
Pensky Martens Flash Point (Closed cup)		85.39 °C
Procedure B		
Gross Calorific Value	ASTM D4868-17	46.07 MJ/kg
Density at 15°C	EN ISO 12185:1996	918.6 kg/m³
Sulfur	ISO 8754:2003	0.47 % (m/m)
Kinematic Viscosity at 50 °C	ISO 3104:1994/Cor.1:1997	34.04 mm²/s
Potential Total Sediment - TSP	ISO 13307-2:2009/Cor.1:2010	0.01 % (m/m)
Carbon Residue - Micro Method	Procedure A	
Upper Pour Point	ISO 10370:2014	3.13 °C (m/m)
Ash	ISO 3016:1984	+18 °C
Elements in Residual Fuel Oil by ICP	ISO 6245:2001	0.014 % (m/m)
Vanadium	IP 501/05	11 mg/kg
Sodium		13 mg/kg
Aluminium + Silicon		28 mg/kg
Calcium		11 mg/kg
Zinc		<1 mg/kg
Phosphorus		<1 mg/kg
Water Content	ISO 3733:1999	0.04 % (w/w)

For full test reports, please contact us.

MGO Test Report by Intertek

✓ Key Findings from Intertek Test Report

1. Improved Fuel Performance

• **Higher Energy Density:** Increased aromatic content → more energy released per unit of fuel → improved fuel efficiency, reduced consumption, and enhanced engine power.

• **Enhanced Lubricity:** Improved lubrication → reduced engine wear → extended engine life and lower maintenance needs.

• **Improved Low-Temperature Flowability:** Optimized formulation ensures reliable operation under cold climate conditions.

2. Superior Emission Performance

• **Carbon Emission Reduction up to 35%:** Verified by real-world marine testing → supports environmental compliance and emission regulations.

• **Lower NOx Emissions:** Reduced combustion peak temperature → cleaner exhaust → improved air quality.

• **Reduced Particulate Matter (PM):** More complete combustion → less smoke and soot → cleaner engine and exhaust.

• **Reduced Carbon Monoxide (CO) and Unburned Hydrocarbons (UHC):**

Enhanced combustion efficiency → further emission reduction.

Table 1 - Neat MGO

D2425 - Hydrocarbon Types in Middle Distillates Results (Procedure B)					intertek	
Sample ID: 2024-SING-012172-003					☐ As fractions ☒ As total sample ☒ Auto	
Aromatics % by HPLC	34.16	mass%	Alkylbenzene calculated carbon#	13		
Saturates % by HPLC	65.84	mass%	Naphthalenes calculated carbon#	13		
			% Mass in the Saturate fraction		% Mass in the aromatic fraction	
Paraffins (14.5)	39.6		Paraffins	38.27	Paraffins	1.36
Monocycloparaffins (14.5)	13.2		Monocycloparaffins	11.65	Cycloparaffins	1.54
Dicycloparaffins (14.5)	10.8		Dicycloparaffins	10.79		
Tricycloparaffins (14.5)	4.2		Tricycloparaffins	4.10		
Alkylbenzenes (13)	9.7		Alkylbenzenes	0.94	Alkylbenzenes	8.27
Indans and Tetralins (13)	10.3				Indans and Tetralins	10.34
Indenes (13)	3.8				Indenes	3.84
Naphthalene (10)	0.7				Naphthalene	0.67
Alkyl-naphthalenes (13)	2.4				Alkyl-naphthalenes	2.39
Acenaphthenes (13)	3.2				Acenaphthenes	3.22
Acenaphthylenes (13)	2.1				Acenaphthylenes	2.09
Tricyclic Aromatics (14)	0.4				Tricyclic Aromatics	0.44
%Saturates in sample	67.8		Total	65.84	Total	34.16
%Aromatics in sample	32.2					
n-Hexadecane ratio check	0.28	(Passed, within 0.2-0.3)				

Table 2 - MGO with Green Fuel Max Marine

D2425 - Hydrocarbon Types in Middle Distillates Results (Procedure B)					intertek	
Sample ID: 2024-SING-012172-002					☐ As fractions ☒ As total sample ☒ Auto	
Aromatics % by HPLC	35.20	mass%	Alkylbenzene calculated carbon#	13		
Saturates % by HPLC	64.80	mass%	Naphthalenes calculated carbon#	13		
			% Mass in the Saturate fraction		% Mass in the aromatic fraction	
Paraffins (14.5)	39.0		Paraffins	37.53	Paraffins	1.44
Monocycloparaffins (14.5)	13.2		Monocycloparaffins	11.59	Cycloparaffins	1.59
Dicycloparaffins (14.5)	10.6		Dicycloparaffins	10.59		
Tricycloparaffins (14.5)	4.1		Tricycloparaffins	4.11		
Alkylbenzenes (13)	9.5		Alkylbenzenes	0.97	Alkylbenzenes	8.48
Indans and Tetralins (13)	10.6				Indans and Tetralins	10.58
Indenes (13)	3.9				Indenes	3.94
Naphthalene (10)	0.7				Naphthalene	0.68
Alkyl-naphthalenes (13)	2.5				Alkyl-naphthalenes	2.48
Acenaphthenes (13)	3.4				Acenaphthenes	3.36
Acenaphthylenes (13)	2.2				Acenaphthylenes	2.19
Tricyclic Aromatics (14)	0.5				Tricyclic Aromatics	0.46
%Saturates in sample	66.9		Total	64.80	Total	35.20
%Aromatics in sample	33.1					
n-Hexadecane ratio check	0.28	(Passed, within 0.2-0.3)				

For full test reports, please contact us.

Vehicle Engine Emissions Reduction Test Report



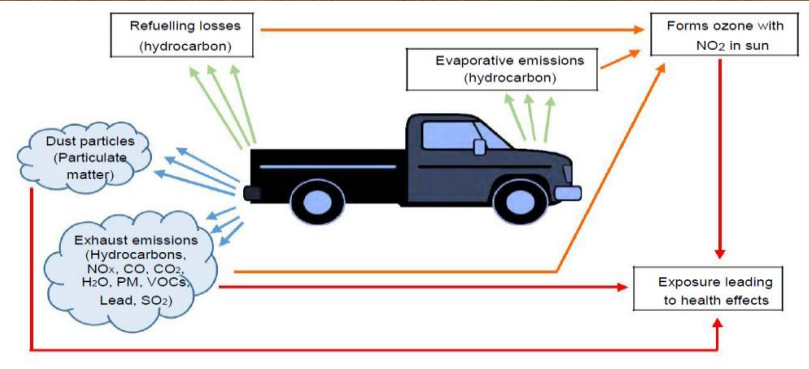
EMISSIONS REPORT – MITSUBISHI TRITON

SLSB-REP-TA-0003

Revision Number: A

Revision Date: 24/01/2017

Description	Data
Unit & Engine Make	Mitsubishi
Registration No.	1GCO 174
Model	Triton
Engine No.	MMAJYKL10GH013995
Engine Capacity	2400cc
Engine Power	133 kW
Total Hours / km Run	9,836 kms
Original Engine	Yes
Exhaust Treatment Type	Standard Turbo Diesel
Bank	Straight 4 Cylinder



Vehicle Engine Emissions Reduction Test Report



✓ GFX additive significantly reduces tailpipe pollutant emissions

Supported by real-world testing data (Mitsubishi Triton test)

1. CO (Carbon Monoxide) Emission Reduction

•Idle Condition (650 RPM)

- Before: 7 ppm → After: 12 ppm (slight increase)

•High Load Condition (2,500 RPM)

- Before: 413 ppm → After: 252 ppm
- ► Reduced by 39%

2. NOx (Nitrogen Oxides) Emission Reduction

•Idle Condition (650 RPM)

- Before: 130 ppm → After: 27 ppm
- ► Reduced by 79%

•High Load Condition (2,500 RPM)

- Before: 151 ppm → After: 136 ppm
- ► Reduced by 10%

3. Other NO & NO₂ Observations

- NO: Decreased from 123–147 ppm to 27–135 ppm
- NO₂: Maximum value decreased from 4 ppm to 1 ppm

Table 4.1: Emissions of CO from Mitsubishi Triton's Exhaust Gas

Vehicle Operation Mode	Speed (RPM)	Before addition of GFX		After addition of GFX	
		Temp. (°C)	CO (ppm)	Temp. (°C)	CO (ppm)
Minimum Rated Power (idle)	650	75	7	55	12
Maximum Rated Power (high idle)	2,500	78	413	75	252

The results are depicted in Figure 4.1 below:

Figure 4.1: Emissions of CO from Mitsubishi Triton's Exhaust Gas Plot

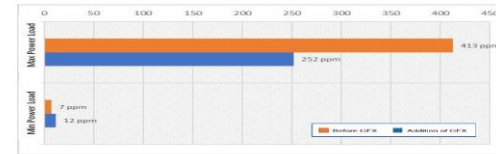
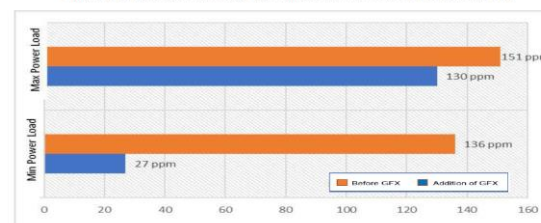


Table 4.2: Emissions of NOx from Mitsubishi TRITON's Exhaust

Vehicle Operation Mode	Speed (RPM)	Before addition of GFX		After addition of GFX	
		Temp. (°C)	NOx (ppm)	Temp. (°C)	NOx (ppm)
Minimum Rated Power (idle)	650	75	130	55	27
Maximum Rated Power (high idle)	2,500	78	151	75	136

Figure 4.2: Emissions of NOx from Mitsubishi TRITON's Exhaust Gas Plot



For full test reports, please contact us.

Marine Main Engine Test Report



上海中船三井造船柴油机有限公司



沪东重机有限公司
HUDONG HEAVY MACHINERY CO., LTD.



GFX Test Report

Background

1. Purpose

Using the diesel oil with and without GFX fuel additive on test engine in test bed. Comparing the difference between engine performance, cleanliness state of the combustion chamber moving parts and engine emission character. According to the results, verify the effect of GFX fuel additive on marine low speed engine.

2. Test engine

Type: CVD-650ME-C8.2
SACR: 99600W@127rpm
Emission grade: T2
Manufacturing date: 2014
Test time: Over 1000 hours

Test procedure

1. Fuel oil analysis

The test engine use 0# diesel oil as fuel oil. Two samples are taken before test. One of them was add GFX fuel additive with the recommend ratio 1:4000. Assay both two samples separately.

2. Original data record

Engine operates in T2 mode without GFX fuel additive. Measure and record engine performance and emission data.

3. Combustion chamber state inspection

Inspect cylinder liner, piston head and piston ring.

4. Add fuel additive

Add GFX fuel additive in fuel oil tank with ratio 1:4000, operate engine in different mode over 100 hours.

5. Test data record

After engine operate over 100 hours with new fuel oil, engine change to T2 mode, measure and record engine performance and emission data.

6. Combustion chamber state inspection

Inspect cylinder liner, piston head and piston ring.

Test result

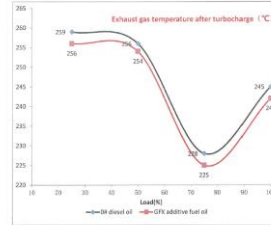
1. Fuel oil sample comparison

Fuel oil analysis reports (see the attachment).

Compare the sample with additive and without additive each detected index nearly without change.

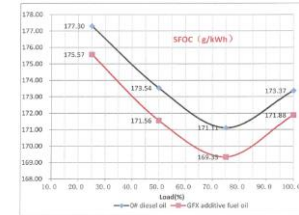
2. Engine performance data comparison

2.1 Exhaust gas temperature



After use GFX fuel additive, engine exhaust gas temperature decreased 2~3°C.

2.2 Fuel oil consumption comparison



After using of GFX additive, fuel oil consumption decreased about 13%~1.5%.

NOx value measurement comparison:

NOx concentration in engine exhaust gas (ppm)				
Load (%)	25	50	75	100
0# diesel oil	1190	1205	935	825
GFX additive fuel oil	1205	1220	928	840

After using of GFX additive, the NOx value without obvious change.

3. Moving parts comparison

After operate with 0# diesel oil	After operate with GFX fuel additive



Piston head



Piston head



Piston ring



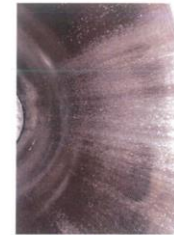
Piston ring



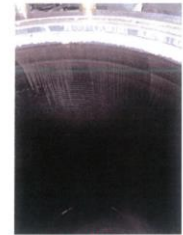
Piston ring



Piston ring



Cylinder liner



Cylinder liner

After use of GFX fuel additive, There is an obviously decrease in carbon deposition of piston head, and no more wear in piston ring and cylinder liner surface.

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香港總公司: (China) HONGKONG COMPANY LTD. Shipping Address: 200-201, 202-203, 204-205, 206-207, 208-209, 210-211, 212-213, 214-215, 216-217, 218-219, 220-221, 222-223, 224-225, 226-227, 228-229, 230-231, 232-233, 234-235, 236-237, 238-239, 240-241, 242-243, 244-245, 246-247, 248-249, 250-251, 252-253, 254-255, 256-257, 258-259, 260-261, 262-263, 264-265, 266-267, 268-269, 270-271, 272-273, 274-275, 276-277, 278-279, 280-281, 282-283, 284-285, 286-287, 288-289, 290-291, 292-293, 294-295, 296-297, 298-299, 300-301, 302-303, 304-305, 306-307, 308-309, 310-311, 312-313, 314-315, 316-317, 318-319, 320-321, 322-323, 324-325, 326-327, 328-329, 330-331, 332-333, 334-335, 336-337, 338-339, 340-341, 342-343, 344-345, 346-347, 348-349, 350-351, 352-353, 354-355, 356-357, 358-359, 360-361, 362-363, 364-365, 366-367, 368-369, 370-371, 372-373, 374-375, 376-377, 378-379, 380-381, 382-383, 384-385, 386-387, 388-389, 390-391, 392-393, 394-395, 396-397, 398-399, 400-401, 402-403, 404-405, 406-407, 408-409, 410-411, 412-413, 414-415, 416-417, 418-419, 420-421, 422-423, 424-425, 426-427, 428-429, 430-431, 432-433, 434-435, 436-437, 438-439, 440-441, 442-443, 444-445, 446-447, 448-449, 450-451, 452-453, 454-455, 456-457, 458-459, 460-461, 462-463, 464-465, 466-467, 468-469, 470-471, 472-473, 474-475, 476-477, 478-479, 480-481, 482-483, 484-485, 486-487, 488-489, 490-491, 492-493, 494-495, 496-497, 498-499, 500-501, 502-503, 504-505, 506-507, 508-509, 510-511, 512-513, 514-515, 516-517, 518-519, 520-521, 522-523, 524-525, 526-527, 528-529, 530-531, 532-533, 534-535, 536-537, 538-539, 540-541, 542-543, 544-545, 546-547, 548-549, 550-551, 552-553, 554-555, 556-557, 558-559, 560-561, 562-563, 564-565, 566-567, 568-569, 570-571, 572-573, 574-575, 576-577, 578-579, 580-581, 582-583, 584-585, 586-587, 588-589, 590-591, 592-593, 594-595, 596-597, 598-599, 600-601, 602-603, 604-605, 606-607, 608-609, 610-611, 612-613, 614-615, 616-617, 618-619, 620-621, 622-623, 624-625, 626-627, 628-629, 630-631, 632-633, 634-635, 636-637, 638-639, 640-641, 642-643, 644-645, 646-647, 648-649, 650-651, 652-653, 654-655, 656-657, 658-659, 660-661, 662-663, 664-665, 666-667, 668-669, 670-671, 672-673, 674-675, 676-677, 678-679, 680-681, 682-683, 684-685, 686-687, 688-689, 690-691, 692-693, 694-695, 696-697, 698-699, 700-701, 702-703, 704-705, 706-707, 708-709, 710-711, 712-713, 714-715, 716-717, 718-719, 720-721, 722-723, 724-725, 726-727, 728-729, 730-731, 732-733, 734-735, 736-737, 738-739, 740-741, 742-743, 744-745, 746-747, 748-749, 750-751, 752-753, 754-755, 756-757, 758-759, 760-761, 762-763, 764-765, 766-767, 768-769, 770-771, 772-773, 774-775, 776-777, 778-779, 780-781, 782-783, 784-785, 786-787, 788-789, 790-791, 792-793, 794-795, 796-797, 798-799, 800-801, 802-803, 804-805, 806-807, 808-809, 810-811, 812-813, 814-815, 816-817, 818-819, 820-821, 822-823, 824-825, 826-827, 828-829, 830-831, 832-833, 834-835, 836-837, 838-839, 840-841, 842-843, 844-845, 846-847, 848-849, 850-851, 852-853, 854-855, 856-857, 858-859, 860-861, 862-863, 864-865, 866-867, 868-869, 870-871, 872-873, 874-875, 876-877, 878-879, 880-881, 882-883, 884-885, 886-887, 888-889, 890-891, 892-893, 894-895, 896-897, 898-899, 900-901, 902-903, 904-905, 906-907, 908-909, 910-911, 912-913, 914-915, 916-917, 918-919, 920-921, 922-923, 924-925, 926-927, 928-929, 930-931, 932-933, 934-935, 936-937, 938-939, 940-941, 942-943, 944-945, 946-947, 948-949, 950-951, 952-953, 954-955, 956-957, 958-959, 960-961, 962-963, 964-965, 966-967, 968-969, 970-971, 972-973, 974-975, 976-977, 978-979, 980-981, 982-983, 984-985, 986-987, 988-989, 990-991, 992-993, 994-995, 996-997, 998-999, 1000-1001, 1002-1003, 1004-1005, 1006-1007, 1008-1009, 1010-1011, 1012-1013, 1014-1015, 1016-1017, 1018-1019, 1020-1021, 1022-1023, 1024-1025, 1026-1027, 1028-1029, 1030-1031, 1032-1033, 1034-1035, 1036-1037, 1038-1039, 1040-1041, 1042-1043, 1044-1045, 1046-1047, 1048-1049, 1050-1051, 1052-1053, 1054-1055, 1056-1057, 1058-1059, 1060-1061, 1062-1063, 1064-1065, 1066-1067, 1068-1069, 1070-1071, 1072-1073, 1074-1075, 1076-1077, 1078-1079

序 号	数据源名称 Data Source	数据格式 Format	数据量 Data quantity	数据大小 Data size	数据类型 Data type
1	DeepEye (2017) DeepEye (2017)	CSV	100 MB	100 MB	字符串
2	Kanary (KAT) KAT (2017)	CSV	100 MB	100 MB	字符串
3	Red Canary (RC) RC (2017)	CSV	100 MB	100 MB	字符串
4	CanarySense (CS) CS (2017)	CSV	100 MB	100 MB	字符串
5	DeepCanary (DC) DC (2017)	CSV	100 MB	100 MB	字符串
6	DeepCanary (DC) DC (2017)	CSV	100 MB	100 MB	字符串
7	DeepCanary (DC) DC (2017)	CSV	100 MB	100 MB	字符串

Shanghai Sake Food Import and Export Co., Ltd.

地址:中国上海市金江路 1143 号 4-5 楼邮编 201206 电话 021-58993211
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电子信箱:info@faii-lab.com 网址:www.faii-lab.com 传真 021-58990966
E-mail: http://Fax.

設備及材料名稱		品名及規格	單位	數量	備註
1	鋼板	SPHC 1000*1000*1.2	張	100	
2	鋼板	SPHC 1000*1000*1.2	張	100	
3	鋼板	SPHC 1000*1000*1.2	張	100	
4	鋼板	SPHC 1000*1000*1.2	張	100	
5	鋼板	SPHC 1000*1000*1.2	張	100	
6	鋼板	SPHC 1000*1000*1.2	張	100	
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100	鋼板	SPHC 1000*1000*1.2	張	100	

序 号	植物种类 (Plant material)	海拔/m	首次采集日期 (Date registered by CHN)	经纬度 (Locality)	备注 (Remarks)
1	刺楸 <i>Ligustrum lucidum</i>	2514	196-109	100°30'E	普通 Conspicuous
2	毛柃 <i>Myrsine seguinii</i> 毛柃 <i>(Myrsine seguinii)</i>	2575	196-109	100°30'E	普通 Conspicuous
3	山胡椒 <i>(Palaquium)</i> C.	714	196-607	102°27'E	普通 Conspicuous
4	刺楸 <i>(Ligustrum lucidum)</i>	612	196-129	100°30'E	普通 Conspicuous
5	柃 <i>(Myrsine seguinii)</i>	1025	196-129	100°30'E	普通 Conspicuous
6	毛柃 <i>(Myrsine seguinii)</i>	6801	196-129	100°30'E	普通 Conspicuous
7	十齿乱草 <i>(Celastrus)</i>	55	196-40	100°20'E	普通 Conspicuous

Shanghai Sanyuan Import and Export Co., Ltd.

Marine Main Engine Test Report



上海中船三井造船柴油机有限公司



沪东重机有限公司
HUDONG HEAVY MACHINERY CO., LTD.



✓ CSSC-MES Diesel Engine Company issued a statement: "No Objection to the Use of GFX Fuel Additives"

"Testing confirms that GFX fuel additives positively impact fuel consumption and combustion cleanliness. CMD does not oppose the use of this additive."

Test Background and Methodology

- **Test Platform:** CMD-6S50ME-C8.2 marine diesel engine
- **Operation Time:** Cumulative runtime exceeding 1,000 hours
- **Test Method :**
 - A single batch of diesel was divided into two groups:
 - **Group A:** Regular diesel control group
 - **Group B:** GFX additive group (at recommended ratio of 1:4000)
 - Comparative test items included :
 - Fuel physicochemical properties
 - Engine fuel economy
 - Emission temperature
 - Wear condition and cleanliness of piston ring and cylinder liner

上海中船三井造船柴油机有限公司
CSSC-MES Diesel Co., Ltd.

Subject: Letter of no objection for GFX fuel additive

Dear Sirs,

Based on the GFX fuel additive test on CMD testing engine, these is positive effect on fuel oil consumption and cleanliness of combustion.

CMD has no objection to the use of this fuel additive.

CMD does not take any responsibility for the function of the additive.

Yours faithfully,

CSSC-MES Diesel Co., LTD



Conclusion

1. GFX additive wasn't change in fuel oil physical and chemical properties, without any harmful element to affect catalyst which would be used on SCR.
2. After using GFX additive, engine fuel consumption decreased about 1%-1.5%.
3. After using GFX additive, during the fuel consumption decrease, the exhaust gas temperature without high decrease, so it would not affect exhaust boiler use onboard.
4. After using GFX additive, the measurement of NOx value without obviously change, so it would not affect the engine emission.
5. After using GFX additive, the combustion chamber cleanliness was improved.

Marine Main Engine Test Report



上海中船三井造船柴油机有限公司



沪东重机有限公司
HUDONG HEAVY MACHINERY CO.,LTD.



2 Fuel Property Stability – Ensuring Fuel Safety

Property	Before Additive	After Additive	Description
Moisture (%)	<0.05	<0.05	No change; fuel stability unaffected
Density (15°C) (kg/m³)	835.3	836.4	Slight increase; energy density improved
Viscosity (40°C) (mm²/s)	2.963	2.973	Slight increase; helps improve lubricity
Gross/Net Calorific Value (MJ/kg)	45.960/42.905	46.010/42.945	Slight increase; supports higher thermal efficiency
Hydrogen Content (%)	13.52	13.57	More energy release per unit mass; supports fuel-saving argument
Oxygen Content (%)	0.69	0.71	More complete combustion; lowers carbon emissions
Cetane Number	53	53	No change; remains compatible with diesel engines

✓ Conclusion: GFX does not alter the fundamental fuel properties. Post-additive safety remains compliant with standards and engine compatibility is unaffected.

3 Improved Fuel Efficiency Performance

✗ Visual data analysis shows:

- GFX reduces engine fuel consumption by approx. 1.3%–1.5%
- Exhaust gas temperature drops by 2–3°C, indicating more complete combustion and better efficiency

✗ Supporting Indicators:

- Higher hydrogen content → more energy per unit of fuel
- Higher oxygen content → improved combustion, less waste
- Improved atomization and spray uniformity → better thermal efficiency

Marine Main Engine Test Report



上海中船三井造船柴油机有限公司



沪东重机有限公司
HUDONG HEAVY MACHINERY CO.,LTD.



4 Emission Reduction and Environmental Benefits

Theoretical and indirect evidence shows :

Increased oxygen and hydrogen ratios → lower carbon intensity Reduced soot and CO → supports ESG, EEXI, CII scoring for sustainability
compliance and credit improvement

✓ Conclusion: GFX helps lower particulate and carbon-based emissions, aiding sustainability and certification performance.

5 Reduced Component Wear – Improved System Reliability

Test Item	Before Additive (Traditional Fuel)	After Additive (With GFX)
Piston Top Carbon	Clearly accumulated, dark deposits	Significantly reduced, visibly cleaner
Piston Ring & Cylinder Wear	Obvious metal scoring and corrosion	Reduced scarring, better lubrication
Combustion Chamber Wall	Local fouling and heavy deposits	Even surface, clean appearance, extended maintenance cycle

Real-World Fuel Savings Results of GFX in Land Vehicles



Australia Test Results

Trial Report – AUSblue – Brisbane Australia



Date: 8th October 2018

Trial Start: 1st Aug 2018 – 4th October 2018

Pre-Trial : 1.76Km per litre

After GFX 3-week trial : 1.84Km per litre

Result: **8.31% Mileage Improvement**

AUSblue are a wholly Australian owned company producing and distributing AdBlue® and complimentary products Australia wide.

Fully Independent test conducted by AUSblue Pty Ltd, without SLBS International's involvement.

Singapore Test Results

Australian Fruit Juice GFX Trial Summary Report



Vehicle Number: Y215

Fuel Saving: **9%**

Trial Period: 1 month

Remarks:

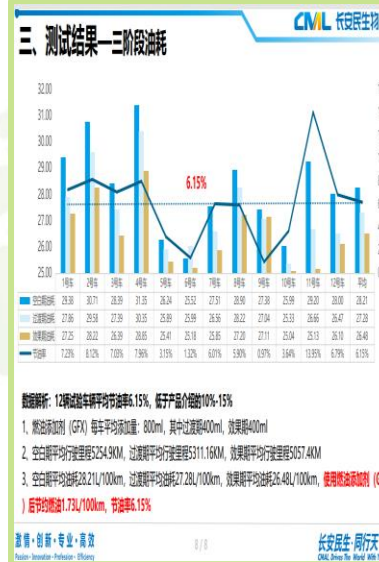
-Travelling distance and workload are **very consistent**

- Hence, fuel saving result is visually obvious



Australian Fruit Juice (S) Pte Ltd was incorporated in the year 1973 as a fruit juice manufacturer with the aim of providing quality fruit juices to the institutions and hotel establishments in Singapore. Since its incorporation 40 years ago they have been recognised in Singapore Food & Beverage business as a leader in the provision of quality beverage solutions.

China Test Results



Malaysia Test Results

Trial Report – Hap Seng Building Materials Sdn Bhd

Jesselton Hill Quarry, Sabah

Date: 22nd May 2018

Trial Start: 3rd April 2018 – 11th April 2018

Tanks treated: 6 times

Fuel Result: **12.06% Fuel Saving**



Summary	
Standard Reading	With GFX Reading
17.3	15.2
Fuel Consumption (L/Hr)	Consumption Difference (L/Hr)
	2.1
Fuel Saving (%)	12.06%



During Refuelling: exposed to weather

GFX MARINE Onboard Testing and Application Results



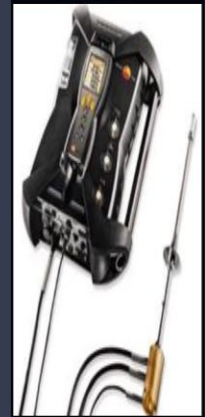
Emission Test Overview	To determine the effectiveness of Green Fuel Max in reducing carbon emissions of operating marine vessels. By measuring Carbon Monoxide and Nitrogen Oxide fuel emission levels of Sea Falcon 15.
Period	6 weeks , from mid-March to April 2023

Testing equipment	Testo 350 Exhaust Gas Analyzer For professional industrial emission measurements for marine vessels from the port and starboard diesel engines. The Testo 350 device is certified by DNV, GL and NK according to MARPOL Annexe VI standard.
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*Emission testing was completed for **Sea Falcon 15**, an offshore searching vessel providing operational services*

- **Testing generally took place daily** and on occasion at night, whenever Sea Falcon 15 bunkered for fuel.
- Testing starboard engine and then port. It was noted that the engines were running well and obviously regular serviced. Soot emissions were low on both engines. The port engine was not running as well as the starboard, refer to further comments on Slide 5.
- The process consisted of mooring or stabilising the launch in calm water, holding the engines in neutral and emission testing by accessing the exhaust ports on the vessel.
- Emission testing was timed between 45-60 seconds, readings were recorded on the Testo 350 and images were taken of these readings at each testing.



Testo 350 Gas Analyzer

GFX MARINE Onboard Testing and Application Results



- Application of Green Fuel Max took place at every bunker visit. Images of measured amounts of each application can be made available upon request.
- Images of all Testo 350 device readings can be made available upon request



Green Fuel Max measured and ready for application to fuel tank. Easy application for Searching Offshore team members



Green Fuel Max being poured into fuel tank. Only takes a few minutes to calculate measure and pour.



One of the two Fuel Bunkers used to refuel Sea Falcon 15

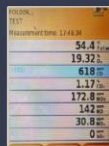


Image of emission reading, of the initial base reading



Image of emission reading, of the peak reading of carbon being removed from the fuel combustion



Image of emission reading, of a low reading post the carbon engine burnout, reflecting a carbon reduction of 67% from initial base reading

Sea Falcon 15 Emission Testing: Key Findings

Initial emission testing's base levels:

- Carbon Monoxide - 618 parts per million = 9.71% Carbon Dioxide
- Nitrogen Oxide - 204 parts per million = 2.05%

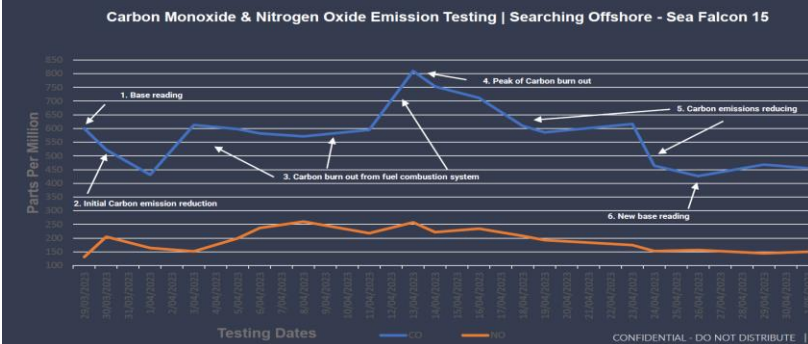
Carbon emission engine burn started on 3 April and continued until 14 April.

Testing was completed once new base level was achieved on 1 May:

- Carbon Monoxide - 455 parts per million = 7.15% Carbon Dioxide
- Nitrogen Oxide - 150 parts per million = 1.50%



Sea Falcon 15 Emission Testing: Results



Sea Falcon 15 Emission Testing: Key Findings - continued

- Carbon emissions overall reduced by just over 35%
- Nitrogen Oxide emissions were reduced by over 35% (note: this was not a target of the testing however a significant change).
- Overall performance improvement on running of engines – noted audible improvements especially in the port engine.
- Diesel refueling quantity generally ranged between 500ltr to 700ltr. Resulting in Green Fuel Max being applied in quantities of between 125ml – 175ml a very small amount of product for a compelling result in terms of Carbon emission reduction.
- This equates to between \$2.00 - \$3.00 per application of Green Fuel Max.
- Emissions reduction in this test is concluded to be significant.

FINDINGS

Achieve over 35% carbon emission reduction, environmental impact reduction

Plus gain fuel savings and cost savings in engine maintenance (est. \$81k/year fleet wide)

Green Fuel Max effectively reduces Carbon Dioxide and Nitrogen Monoxide emissions, cleans fuel systems, and improves fuel economy.

GFX MARINE Fuel Additive Test Summary



🚩 Test Background

- Real-world marine trials conducted on operational ships at sea
- Comparative testing: data collected before and after using the additive, covering fuel consumption, emissions, engine performance, and operational behaviours
- Objective: Verify effectiveness in fuel savings, emission reduction, engine cleanliness, and combustion efficiency improvement ◦

📊 Fuel-Saving Results

- Significant trend of reduced fuel consumption observed under actual operating conditions
- Estimated fuel savings potential is approximately 9%, based on the “equivalent carbon reduction cost conversion method”
- Actual measured fuel savings: approximately 8%–10% ◦

🌿 Emission Reduction Effects

- CO emissions reduced by ~26% → Indicates more complete combustion, less unburned carbon
- NOx emissions reduced by ~26% → Shows better combustion temperature control, reducing high-temperature byproducts
- Exhaust temperature lowered by 2–3°C → Improved heat transfer efficiency and combustion stability
- Overall reduction in carbon emissions → Supports carbon credit acquisition & compliance with EEXI / CII / ESG regulations ◦



GFX MARINE has shown outstanding performance on Chinese-operated VLOC, VLCC, CAPE, AFRAMAX, PANAMAX, and European dry bulk vessels. Its engine efficiency and fuel-saving mechanism align with those in land vehicles. While results may vary slightly depending on fuel quality and engine systems, marine fuel savings are often even better. The earlier you use it, the sooner you benefit.

GFX and GFX MARINE Product MSDS



Green FUEL MAX Material Safety Data Sheet

1. IDENTIFICATION of MATERIAL and SUPPLIER

Product Name: GREEN FUEL MAX (GFX)
Recommended Use: Fuel additive for petrol and Diesel fuels

2. HAZARDS IDENTIFICATION

Hazard Classification: This material is not considered **hazardous** according to the criteria of ASCC. However prolonged skin or eye contact can cause irritations.

Hazard Category: N/A

Risk Phrases: N/A

Safety Phrases: N/A

3. COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	CAS No	Proportion (%w/w)
Non Ionic surfactants (non-hazardous)	N/A	30-60%
Alkoxy propanols (organic)		
Dye	Proprietary	<10%
Fragrance	Proprietary	<10%

4. FIRST AID MEASURES

FIRST AID

Swallowed: If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice. For advice, contact a Poisons Information Centre (Phone Australia 131126) or a doctor.

Eye: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair thoroughly with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor.

Inhaled: Remove the victim from the source of exposure to fresh air. Avoid becoming a casualty. Seek medical advice if effects persist.

ADVICE TO DOCTOR Treat symptomatically.

Green FUEL MAX Marine Safety Data Sheet

1. IDENTIFICATION of MATERIAL and SUPPLIER

Product Name: GREEN FUEL MAX - MARINE
Other Names: None
Recommended Use: MARINE FUEL OIL (HSFO, LSFO, VLSFO) AND MARINE DIESEL OIL

2. HAZARDS IDENTIFICATION

Hazard Classification: This material is not considered **hazardous** according to the criteria of ASCC. However prolonged skin or eye contact can cause irritations.

Hazard Category: N/A

Risk Phrases: N/A

Safety Phrases: N/A

3. COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	CAS No	Proportion (%w/w)
Non Ionic surfactants (non-hazardous)	N/A	30-60%
Alkoxy propanols (organic)		
Dye	Proprietary	<10%
Fragrance	Proprietary	<10%

4. FIRST AID MEASURES

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Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair thoroughly with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor.

Inhaled: Remove the victim from the source of exposure to fresh air. Avoid becoming a casualty. Seek medical advice if effects persist.

ADVICE TO DOCTOR Treat symptomatically.

Non-toxic, Harmless, Safe Product with Extended Shelf Life



An Extra Layer of Assurance

The safety of GFX and GFX Marine products has been officially recognized by insurers. Berkley Insurance Australia, a globally renowned insurance provider, has issued a AUD 10 million global property insurance policy for the GFX product line—giving customers complete peace of mind.

Public & Products Liability Insurance

Certificate of Currency

Policy Number: SVU 20190625-151825

Date of Issue

05 June, 2020

Insurer

Berkley Insurance Company trading as Berkley Insurance Australia
ABN 53 126 559 706
AFSL 463129
PO Box Q296 QVB NSW 1230

Period of Insurance

From 4pm 30/06/2020 to 4pm 30/06/2021

Named Insured

Named Insured

SLSB International Co Ltd

Named Insured ABN

20 131 726 213

Address

15 Observatory Drive
REEDY CREEK QLD 4227

Business

Industrial Chemical, Organic, Manufacturing Noc

Business Description

MANUFACTURE & SUPPLY OF
ORGANIC CLEANING PRODUCTS

Policy Wording

Steadfast Client Trading Platform (SCTP) Liability Policy 2017

Policy Details

Limits of Liability

Public Liability

\$10,000,000

In respect of any one claim or series of claims arising out of any one Occurrence

Products Liability

\$10,000,000

In respect of any one claim or series of claims, and in the aggregate during any one Period of Insurance

Sub-Limits of Liability

Product Recall Expenses

Not Insured

Errors and Omissions

Not Insured

Care, Custody and Control

\$250,000

Optional Extensions

Exports to North America

Not Insured

Endorsements

Care Custody Control Endorsement – Steadfast SCTP Liability 2017

Products Liability - Australian Standards Condition - Steadfast SCTP Liability 2017

Sub Contractors Condition \$10m Limit - Steadfast SCTP Liability 2017

Products Liability - Applicable Standards Export Condition - Steadfast SCTP Liability 2017

Signed for and on behalf of Berkley Insurance Australia.

GFX & GFX MARINE Usage Guidelines



Before refuelling, add GFX directly into the fuel tank.

Calculate the total tank capacity and the amount of fuel to be added, then dose accordingly:

- Initial dosage: 1 litre of GFX per 2,000 litres of fuel
- Maintenance dosage (after 1 month): 1 litre per 4,000 litres
- Can be used immediately after refuelling



Before bunkering, inject GFX Marine directly into the tank via dip port or other access points. Calculate total tank capacity and fuel volume to be added, then dose accordingly:

- Initial dosage: 1 litre of GFX Marine per 5,000 litres of fuel
- Maintenance dosage (after 1 month or full voyage): 1 litre per 10,000 litres
- Allow 48 hours for natural mixing before normal use



Case Study: Cost-Benefit Calculation

Example: Panama Bulk Carrier

Items	Quantity	Unit
Daily HFO Consumption	30	MT
Standard Emissions Factor	3.15	tCO ₂ /MT
LSFO Unit Price	550	US\$
2025 Carbon Credit Price (Est.)	80	US\$
Annual Operating Days	300	Day

Data Type	Cost		Benefit		
GFX Additive Daily Dosage(Dosing rate: 1:10000, Retail Price: USD 80/L)	3L	US\$ 240			
Daily savings from 1% HFO reduction			0.30 MT	US\$	165
Carbon credit savings from reduced CO ₂ emissions (0.945 t)			0.945 tCO ₂	US\$	75.60
Total daily savings				US\$	0.6
Annual savings (×300 days)				US\$	180

This table proves you're essentially using our multifunctional additive for free.

Data Type	Cost		Benefit		
GFX Additive Daily Dosage	3L	US\$ 240			
Daily savings from 5% HFO reduction			1.5 MT	US\$	825
Carbon credit savings from reduced CO ₂ emissions			4.725 tCO ₂	US\$	378
Total daily savings				US\$	963
Annual savings (×300 days)				US\$	288900

This is the fuel and emission saving your vessel should achieve with our additive!
(Spare parts and maintenance savings not included)

Efficiency is not a
promise—it's a proven
outcome.



The sooner you use it,
the sooner you benefit!



Case Study: Cost-Benefit Calculation

Example: Logistic Truck

Fuel Consumption Per 100 KM	35	L
Daily Distance (Assumed 2000KM)	700	L
Emission Factor	3.15	tCO2/mT
Diesel Price Per Litre	1.5	US\$
EUA Carbon Price (2025)	80	US\$
Annual Operation Days	300	DAY

Efficiency is not a
promise—it's a proven
outcome.



Data Type	Cost		Benefit		
Daily GFX additive consumption(Dosing rate 1:4000, Retail Price : USD100/L)	0.175	L	US\$ 17.50		
Daily savings from 5% HFO reduction				35 L	US\$ 52.50
Carbon credit saved (0.1 tCO ₂)				0.1 tCO ₂	US\$ 8
Total daily savings					US\$ 43
Annual savings (× 300 days)					US\$ 12900

The sooner you use it,
the sooner you benefit!



This is the fuel and emission saving your Truck should achieve with our additive!
(Spare parts and maintenance savings not included)

✓ **Proven Emission Cuts**

✓ **Effective Fuel Savings**

🌿 **Green Power**

🌟 **Starts with GFX**



GFX & GFX Marine – The New-Generation Organic Fuel Optimizer. GFX and GFX Marine are advanced, multi-functional fuel treatment solutions made from 100% organic, non-hazardous ingredients. Backed by over 5 years of shelf stability and comprehensive insurance coverage, they offer a safer, greener alternative to traditional chemical additives. Key benefits include: Boosting fuel calorific value, Cleaning and lubricating the fuel system, Improving combustion efficiency, Reducing fuel consumption per unit of power, Lowering emissions of CO₂, CO, and Nox. With proven effectiveness in both land and marine applications, GFX provides measurable energy savings and emission reductions—delivering peace of mind for every user.