Green FUEL MAX Marine



Nature-Powered Fuel Conditioner

for Marine Engines





PRODUCT INTRODUCTION

GREEN FUEL MAX Marine is a new-generation, green organic fuel additive derived from native Australian specialty trees and botanical resources. It is produced using a proprietary and advanced extraction technology, resulting in a highly efficient and environmentally friendly formulation.

Following the successful deployment of GFX land-based additives in Australia, GFX collaborated with major shipowners in 2019 to co-develop GFX MARINE, a specialized additive for marine applications. Production and testing were completed in February 2021, with all performance indicators meeting targeted benchmarks. The product was officially launched to the global shipping market in March 2021.

The primary markets include China, Europe, and Oceania.

DIFFERENCES FROM CONVENTIONAL ADDITIVES

Traditional fuel additives typically address only single or limited issues (such as carbon deposit control or cold flow improvement). In contrast, GFX delivers integrated multi-functional performance, simultaneously addressing five critical areas:

- Fuel system cleaning
- Fuel efficiency improvement
- Emissions reduction
- Lubricity enhancement
- Low-temperature adaptability

This "all-in-one" solution optimizes overall fuel system performance.

COMMON FUEL ISSUES AND ASSOCIATED RISKS

Marine fuels are refined from crude oil and contain varying levels of impurities such as asphaltenes, wax, water, residual carbon, ash, biological contaminants, and mechanical particles. Over time, storage can lead to microbial growth ("diesel bug"), forming sludge and wax precipitation, which negatively impacts fuel systems in several ways:

01 **Fuel System Blockages**

Sludge can clog tanks, pipelines, separators, and service tank outlets.



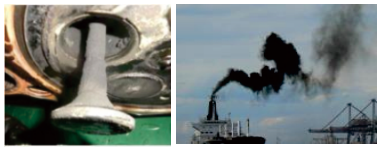
02 **Key Component Damage**

wear, corrosion, carbon deposits, on key components



03 **Poor Combustion & Higher Emissions**

Incomplete combustion, black smoke, higher COx/NOx emissions.



04 **Operational & Safety Risks**

engine power loss, breakdowns, and increased safety risks



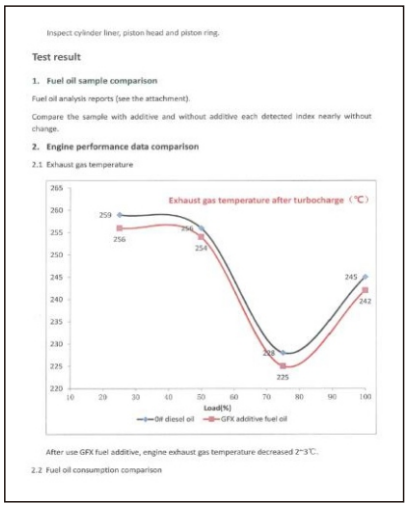
MECHANISM OF ACTION & CORE VALUE

01 5–10% Fuel Savings	Improves atomization and combustion stability	Reduces fuel use, smoke, and emissions
02 System Cleaning	Disperses sludge and inhibits microbial growth	Prevents deposits, blockage, and fuel contamination
03 Low-Temperature &Anti-Wax	Prevents paraffin crystal formation	Improves fuel flow in cold conditions
04 Lubricity Enhancement	Plant-based lubricants improve lubricity	Reduces wear and extends component life
05 Environmental Benefits	Lower emissions	Supports IMO compliance

AUTHORITATIVE TESTING & FIELD RESULTS

上海中船三井造船柴油机有限公司

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



Inspect cylinder liner, piston head and piston ring.

Test result

1. **Fuel oil sample comparison**

Fuel oil analysis reports (see the attachment).

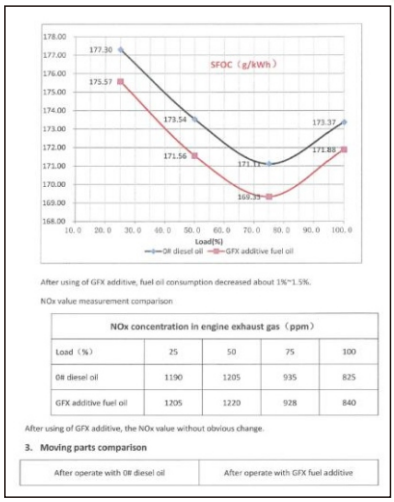
Compare the sample with additive and without additive each detected index nearly without change.

2. **Engine performance data comparison**

2.1 Exhaust gas temperature

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

2.2 Fuel oil consumption comparison



After using of GFX additive, fuel oil consumption decreased about 1%~1.5%.

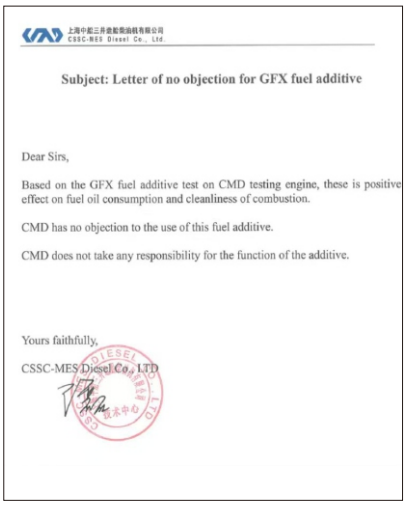
NOx value measurement comparison

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



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

(Shanghai CSSC-MES Diesel Co., Ltd. & Hudong Heavy Machinery)

Marine Main Engine TestingBasis:
Conducted on a CMD-6S50ME-C8.2 engine with over 1,000 hours of cumulative operation. A controlled comparison was performed between conventional diesel (Group A) and diesel treated with GFX (Group B, dosage ratio 1:4000).
Key Findings:

- CSSC-MES Diesel Co., Ltd. issued a “Letter of No Objection”, confirming the additive’s positive impact on fuel consumption and combustion cleanliness.
- Fuel physicochemical properties remained stable after treatment
- Specific fuel oil consumption decreased by an average of 1.3%–1.5%.
- Reduced piston carbon deposits and decreased cylinder liner wear.

Green FUELMAX



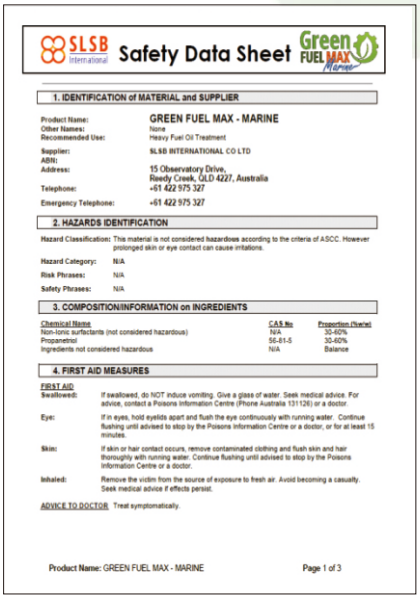
FIELD TEST – SEA FALCON 15

Test Basis:
Conducted over six weeks (mid-March to April 2023) on a nearshore search and rescue vessel.
Port and starboard engines were analyzed using a Testo 350 gas analyzer compliant with MARPOL Annex VI.

Key Results:
- Carbon emissions reduced by over 35%
- NOx emissions reduced by over 35%
- CO emissions reduced by approximately 26%
- Verified fuel savings of 8%–10%
- Improved engine stability and enhanced thermal efficiency

SAFETY ASSURANCE & USAGE GUIDELINES

Safety Profile: 100% natural based, non-toxic, and environmentally friendly, with 5+ years shelf life.
Insurance Coverage: Provided by Berkley Insurance, offering AUD 10 million in global property liability coverage (Policy No. SVU20190625-151825) ensuring user confidence and risk protection.



SLSB International Safety Data Sheet — Green Fuel Max Marine

1. IDENTIFICATION of MATERIAL and SUPPLIER

Product Name: GREEN FUEL MAX - MARINE
Other Names: None
Recommended Use: Heavy Fuel Oil Treatment
Supplier: SLSB INTERNATIONAL CO LTD
ABN:
Address: 15 Observatory Drive, Reedy Creek, QLD 4227, Australia
Telephone: +61 422 975 327
Emergency Telephone: +61 422 975 327

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

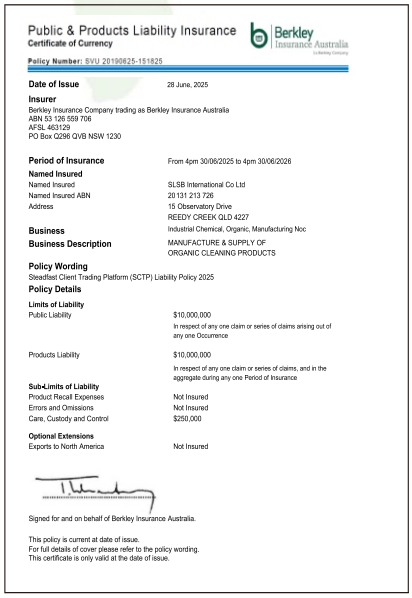
3. COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	CAS No	Proportion (%w/w)
Non-ionic surfactants (not considered hazardous)	N/A	30-40%
Propanediol	56-81-5	30-40%
Ingredients not considered hazardous	N/A	Balance

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.

Product Name: GREEN FUEL MAX - MARINE Page 1 of 3



Public & Products Liability Insurance
Certificate of Currency
Berkley Insurance Australia

Policy Number: SVU 20190625-151825

Date of Issue 28 June, 2025

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 30/06/2025 to 4pm 30/06/2026

Named Insured
Named Insured SLSB International Co Ltd
Named Insured ABN 20 131 213 726
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 2025

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

Signed for and on behalf of Berkley Insurance Australia.

This policy is current at date of issue.
For full details of cover please refer to the policy wording.
This certificate is only valid at the date of issue.

GFX MARINE APPLICATION GUIDELINES

- Dosage Timing: Add prior to bunkering, via sounding pipe or other tank access points.
- Mixing Ratio:
  - o Initial use: 1:5000 (GFX Marine vs. Marine Fuel)
  - o Subsequent use (after 1 month or one full voyage): 1:10000
- Mixing Requirement: Allow natural blending for 48 hours before normal operation.

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