

PRI-XLR8

LUBRICITY TREATMENT for MGO/VLSFO

ECONOMIC PROTECTION FOR MARINE FUEL PUMPS

PRI-XLR8 is specifically formulated to provide the optimum level of protection for marine fuel pumps operating on 0.1% sulfur marine gas oil (MGO) and 0.50% sulphur very low sulphur fuel oil (VLSFO).

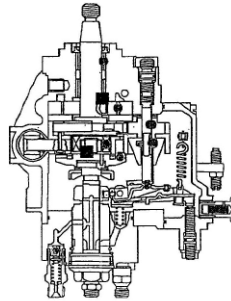
Since VLSFO was introduced January 1, 2020, some shipowners have determined that the characteristics of certain stems of VLSFO, have very low lubricity properties. Thus, a strong and effective lubricity additive is also necessary in certain bunkers of VLSFO.

PRI-XLR8 is a stand-alone lubricity chemistry, providing a premium level of lubricity protection via a proprietary fatty acid/mono-acid chemistry, and at a treat rate of *one liter for every 10 metric tons of MGO or VLSFO*. This provides an economical and powerful tool for vessel owners who demand the very best at a cost-effective price.

Power Research Inc. has been supplying premium fuel additives to the commercial marine, power generation and automotive industries for over 35 years. **PRI-XLR8** is our newest product and it provides the appropriate level of protection needed for today's fuels. **PRI-XLR8** is also extremely affordable.

PRI-XLR8 was formulated based on **1991 - Automotive Rotary Pump** a version of the HFRR test especially modified to directly correlate to the much more demanding internal conditions of *marine fuel pumps*.

And therefore, in test after test, **PRI-XLR8** consistently outperforms others, ensuring that marine fuel pumps will continue to function - whether in normal use, or in mission critical situations.



Outlet Pressure: **200 BAR**

2010 - MAN S60 MC-C Pump



Outlet Pressure: **2000 BAR**

PRI-XLR8 mixes well with any MGO or VLSFO fuel. Dose rate is one liter per 10 MT (1:10000). **PRI-XLR8** may be added directly to storage or settling tanks just prior to bunkering or transfer. Do not use the sounding tubes as this will not ensure a good mix of **PRI-XLR8** and the marine fuel. No costly injection equipment is needed.

For optimum protection at a most affordable price, PRI-XLR8 is truly the only sensible choice!

PRI-XLR8 HFRR Response @ 1:5000



	Standard HFRR wear scar (microns)	Modified HFRR wear scar (microns)
No Treatment	580	660
PRI-XLR8	380	410

Specifications	
Color & Appearance	Colorless Liquid
Boiling Point	213 C.
Flash Point	160 C/320 F
Specific Gravity	0.88 – 0.93
Water Solubility	Insoluble
USA DOT ID Number	UN 1268
Class/Division	Combustible Liquid
IMDG	Not classified as dangerous under IMDG regulation
IATA	Not classified as dangerous under IATA regulations

Dosage Rate:

For maximum protection against fuels with scar rates above 600 microns, apply **PRI-XLR8** at a dose rate of 1 liter per 5 metric tons. **For regular protection from fuels with scar rates of 350-600, apply PRI-XLR8 at a dose rate of 1 liter to 10 MT.**

Dosage Method:

PRI-XLR8 may be directly added to tanks prior to bunkering. Agitation from fuel flow during bunkering will provide a sufficient mixture of **PRI-XLR8** with the fuel.

Quality control:

PRI-XLR8 is manufactured in accordance with strict, chemical manufacturing standards. Each blend is numbered, and a retain sample is FTIR tested against a laboratory standard to ensure optimal conformance.

Miscibility:

PRI-XLR8 is a precise blend of organic chemistries that once blended with marine gas oil, will not stratify or separate, even with fuel purification.