

Unique solutions.
Significant value.
Enable clean energy.

With the right strategy, the right technology, and the right team, we are taking energy forward by developing novel solutions that deliver significant value for our customers.

Utilizing a combination of tools and expertise from our diverse portfolio and include offerings that entail Chemistry, Mechanical Solutions, and Technical Expertise.

ALCHEMIA™

BIOQUEST™

DEMANDTRAC™

FLO NOW™

LIFESHIELD™

LIFESPAN™

SMARTGUARD™ 2820

SPECTRACLEAR™

TOPGUARD™

CRUDE OIL MANAGEMENT™

ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Maximize the value of your hydrocarbon stream with reliable contaminant removal solutions

- Access to a wide range of filtration technologies that include a variety of media
- · Access to the largest fleet in North America
- Utilize our in-house and strategic partner's technical expertise to provide solutions quickly
- Mobilize quickly to address challenges
- Utilize our wide range of chemistries to supplement where needed
- Address many applications such as fuel quality, water purification, intermediates, and other hydrocarbon and water streams
- Remove varying particulates, color bodies, entrained water
- Ability to process a wide range of volumes through our media

ALCHEMIA

contaminant removal solution









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Upgrade products and penetrate more profitable markets while reducing costs associated with high metal content and eliminating tank containment bottlenecks

- Lower quality feedstocks can improve refinery profits
- Address elevated levels of ash, aluminum, and silica content in slurry feed which can hinder the performance of downstream units, limit profit improvements
- Process solutions to improve slurry quality to be more reliable and efficient as feed content changes
- Treat live tanks and avoid associated unit shutdowns or tank containment
- · Extend time between tank cleanings
- Improve operations at renewable diesel facilities, and novel bench scale plant to determine system requirements and performance

ALCHEMIA

solids removal

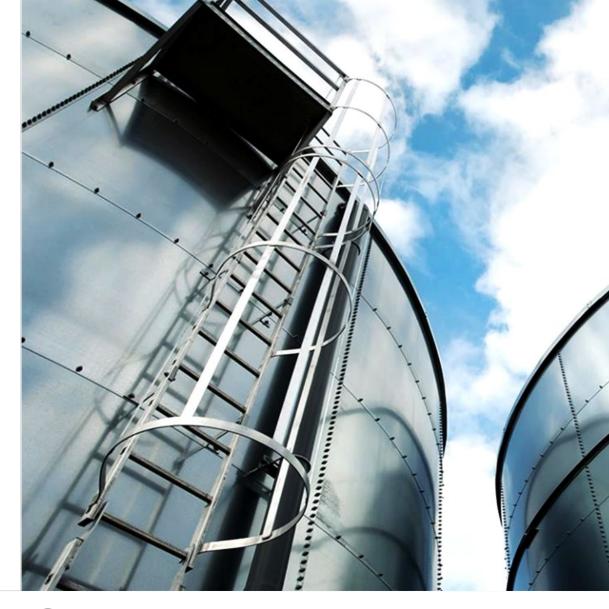
VIEW CASE STUDY

VIEW CHART















ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

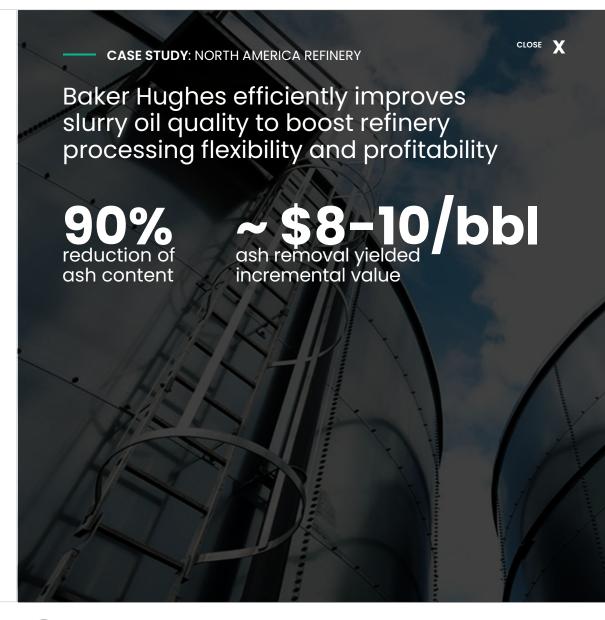
Upgrade products and penetrate more profitable markets while reducing costs associated with high metal content and eliminating tank containment bottlenecks

- Lower quality feedstocks can improve refinery profits
- Address elevated levels of ash, aluminum, and silica content in slurry feed which can hinder the performance of downstream units, limit profit improvements
- Process solutions to improve slurry quality to be more reliable and efficient as feed content changes
- Treat live tanks and avoid associated unit shutdowns or tank containment
- · Extend time between tank cleanings
- Improve operations at renewable diesel facilities, and novel bench scale plant to determine system requirements and performance



solids removal

VIEW CASE STUDY VIEW CHART











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

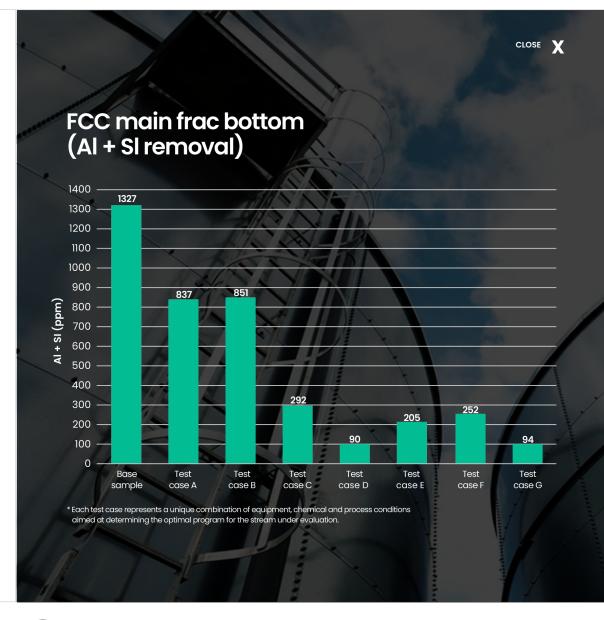
Crude Oil Management™

Upgrade products and penetrate more profitable markets while reducing costs associated with high metal content and eliminating tank containment bottlenecks

- Lower quality feedstocks can improve refinery profits
- Address elevated levels of ash, aluminum, and silica content in slurry feed which can hinder the performance of downstream units, limit profit improvements
- Process solutions to improve slurry quality to be more reliable and efficient as feed content changes
- Treat live tanks and avoid associated unit shutdowns or tank containment
- Extend time between tank cleanings
- Improve operations at renewable diesel facilities, and novel bench scale plant to determine system requirements and performance

ALCHEMIA[™] solids removal

VIEW CASE STUDY VIEW CHART











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Reliably remove sulfur to maximize the commercial value of your hydrocarbon stream

- Meet commercial sulfur specs to maximize product market value
- Avoid costly treating alternatives like hydrotreating or purchasing sulfur credits
- Minimize penalties for violating regulatory sulfur limits















ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

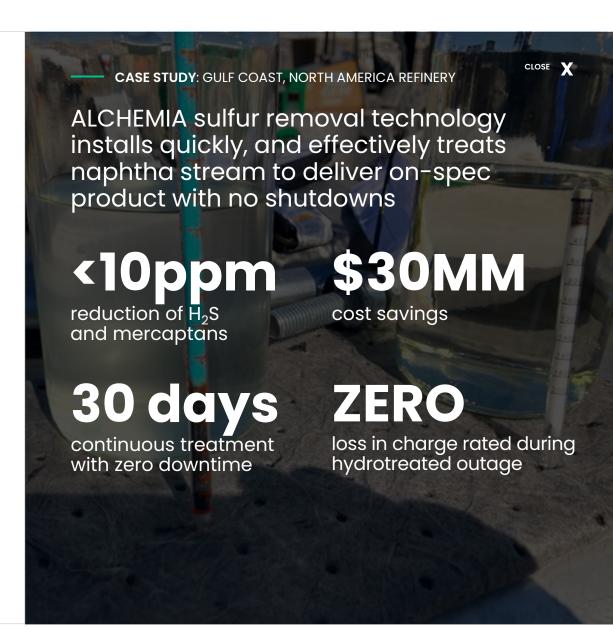
TOPGUARD™ spray modeling

Crude Oil Management™

Reliably remove sulfur to maximize the commercial value of your hydrocarbon stream

- Meet commercial sulfur specs to maximize product market value
- Avoid costly treating alternatives like hydrotreating or purchasing sulfur credits
- Minimize penalties for violating regulatory sulfur limits









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Enhance renewable fuel production capabilities

- Baker Hughes is the leading North America chemical vendor in the renewable diesel space
 - Process treatment
 - Water treatment
- Increase contaminant removal and lower waste production in feedstock pretreatment
- Developed unique demulsification chemistry for the new pretreatment technology Hydrothermal Cleanup by working directly with ARA
- Reduce down-time due to organic and inorganic fouling in exchangers and reactors
- Manage high organic loading to WWTP smartly and efficiently
- Tailored finish fuel additives to meet the unique needs of renewable diesel











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Lengthen heat exchanger life by using tagged cooling water polymer through improved on-line measurement

- More accurate measurement of chemical residual in cooling tower systems increasing treatment performance and optimizing cost control
- Forms part of the VIVID™ on line chemical treatment application
- Halogen stable azole option for chlorine based systems
- Enables simultaneous online measurement of both scale and corrosion inhibitors

DEMANDTRAC

tagged polymers for scale control









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Increase capacity and product throughput with rapid drag reduction solutions

- Enhance product throughput by eliminating residence time in transfer lines
- Reduce cargo tanker demurrage to avoid downtime and fees
- Increase processing availability for enhanced scheduling flexibility
- Improves mobilization with a mobile, self-contained system
- Industries only short-line drag reducer

FLO[™] NOW instant drag reduction













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOOUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Increase capacity and product throughput with rapid drag reduction solutions

- Enhance product throughput by eliminating residence time in transfer lines
- Reduce cargo tanker demurrage to avoid downtime and fees
- · Increase processing availability for enhanced scheduling flexibility
- · Improves mobilization with a mobile, self-contained system
- · Industries only short-line drag reducer

FLO NOW instant drag reduction













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Meet low-phosphorus effluent mandates using non-phosphorus passivating cooling water polymers

- Enables compliance with environmental mandates
- Reduces water footprint
- · Treats zero hardness water
- Enhanced corrosion protection maintaining your assets for longer
- Faster more efficient passivation on clean or start up of heat exchanger systems
- Non P chemistry kinder to the environment and less impact on your wastewater plant

LIFESHIELD

non P corrosion inhibitor for cooling towers

VIEW CASE STUDY

VIEW CHART

















ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

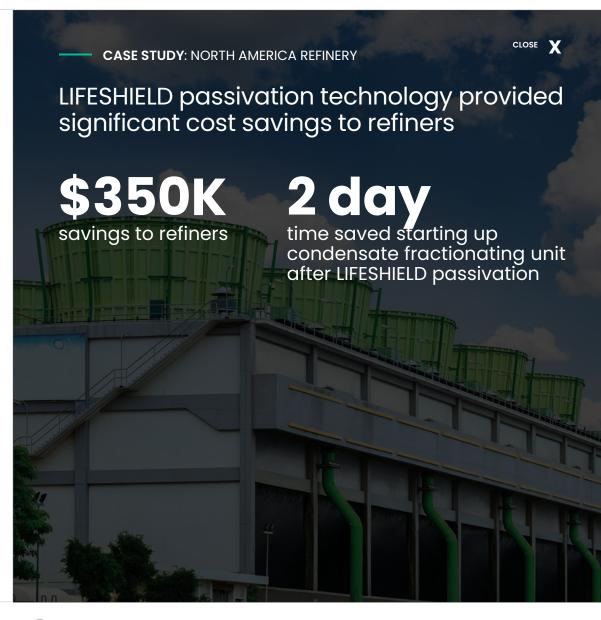
Meet low-phosphorus effluent mandates using non-phosphorus passivating cooling water polymers

- Enables compliance with environmental mandates
- Reduces water footprint
- · Treats zero hardness water
- Enhanced corrosion protection maintaining your assets for longer
- Faster more efficient passivation on clean or start up of heat exchanger systems
- Non P chemistry kinder to the environment and less impact on your wastewater plant

LIFESHIELD

non P corrosion inhibitor for cooling towers

VIEW CASE STUDY VIEW CHART









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

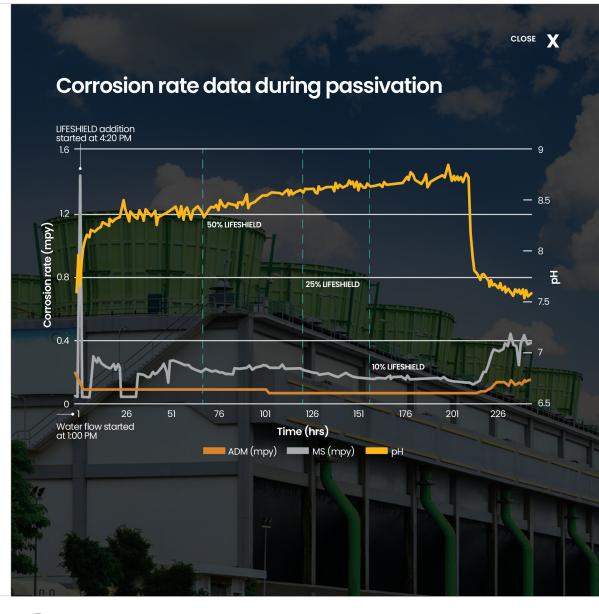
Meet low-phosphorus effluent mandates using non-phosphorus passivating cooling water polymers

- Enables compliance with environmental mandates
- Reduces water footprint
- · Treats zero hardness water
- Enhanced corrosion protection maintaining your assets for longer
- Faster more efficient passivation on clean or start up of heat exchanger systems
- Non P chemistry kinder to the environment and less impact on your wastewater plant

LIFESHIELD

non P corrosion inhibitor for cooling towers

VIEW CASE STUDY VIEW CHART









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

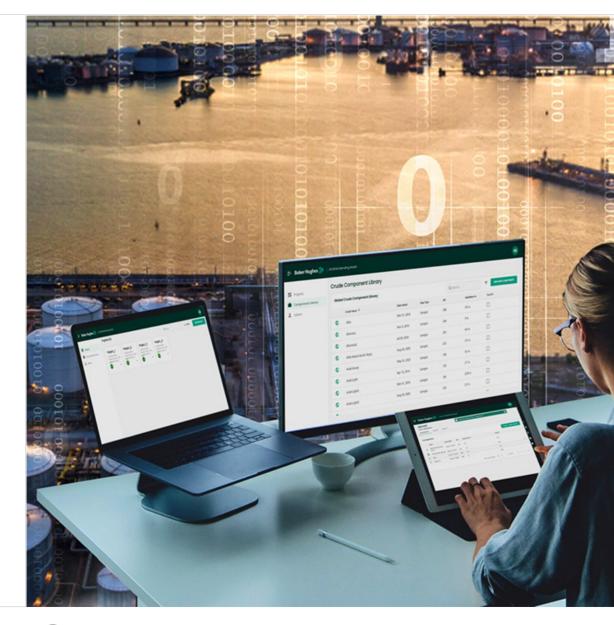
Timely determination of optimal crude blending strategy

- Cloud-based technology
- Provides stability data for planned or potential crude blends
- Assesses impact of crude oils new to the refinery
- · A key component of decision making to maximize feedstock flexibility
- · Avoid off-spec fuel problems that lead to lost profits and regulatory challenges

LIFESPAN™ Blending model













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

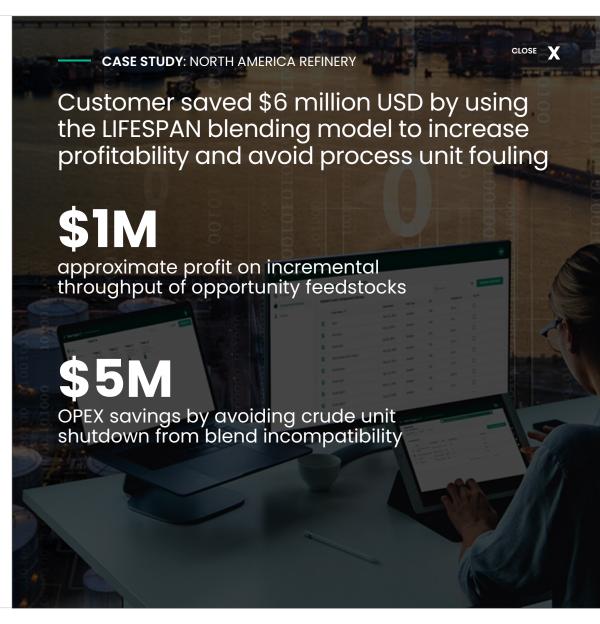
TOPGUARD™ spray modeling

Crude Oil Management™

Timely determination of optimal crude blending strategy

- Cloud-based technology
- Provides stability data for planned or potential crude blends
- Assesses impact of crude oils new to the refinery
- A key component of decision making to maximize feedstock flexibility
- Avoid off-spec fuel problems that lead to lost profits and regulatory challenges

LIFESPAN[™]
Blending model









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous > corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

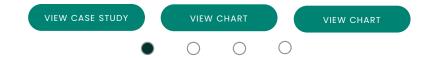
TOPGUARD™ spray modeling

Crude Oil Management™

Minimize impact on downstream catalysts and maintain integrity of process equipment

- Maintains integrity of process equipment:
 - <10 MPY target on all circuits
- Allows processing of higher acid crude slates for maximum economic benefit
- Minimizes phosphorous impact on downstream catalysts
- Minimizes phosphorus poisoning of downstream catalysts
- One component of the SMARTGUARD high temperature corrosion control toolbox

SMARTGUARD 2820











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous > corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

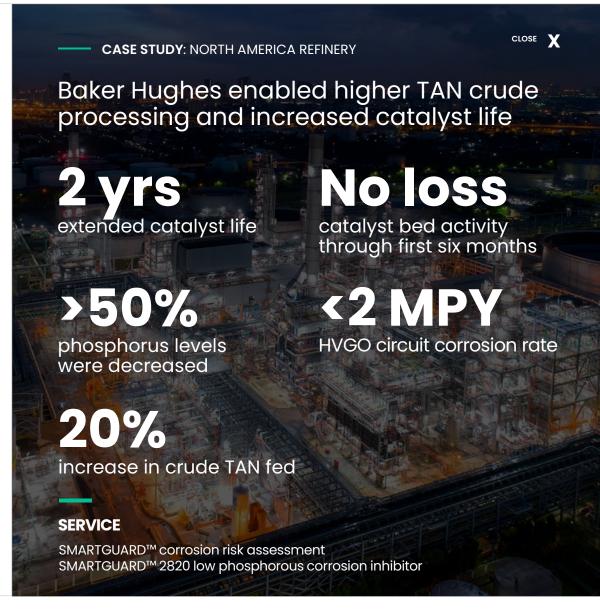
Crude Oil Management™

Minimize impact on downstream catalysts and maintain integrity of process equipment

- · Maintains integrity of process equipment:
 - <10 MPY target on all circuits
- Allows processing of higher acid crude slates for maximum economic benefit
- Minimizes phosphorous impact on downstream catalysts
- Minimizes phosphorus poisoning of downstream catalysts
- One component of the SMARTGUARD high temperature corrosion control toolbox

SMARTGUARD 2820











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous > corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

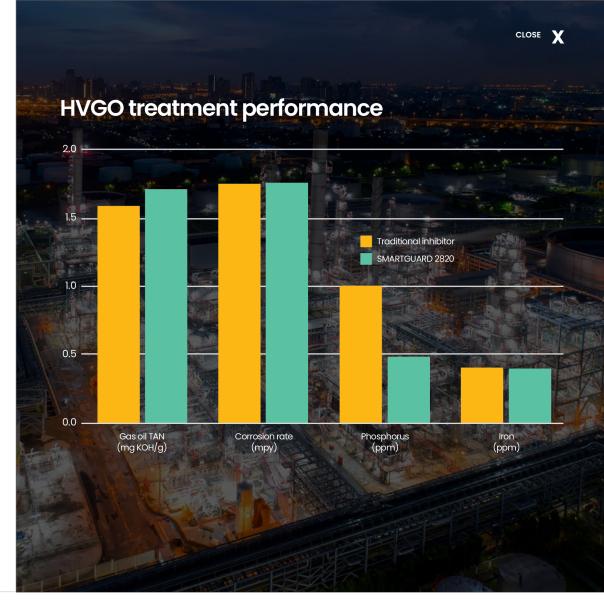
Crude Oil Management™

Minimize impact on downstream catalysts and maintain integrity of process equipment

- Maintains integrity of process equipment:
 - <10 MPY target on all circuits
- Allows processing of higher acid crude slates for maximum economic benefit
- Minimizes phosphorous impact on downstream catalysts
- Minimizes phosphorus poisoning of downstream catalysts
- One component of the SMARTGUARD high temperature corrosion control toolbox

SMARTGUARD 2820











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous > corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Minimize impact on downstream catalysts and maintain integrity of process equipment

- Maintains integrity of process equipment:
 - <10 MPY target on all circuits
- Allows processing of higher acid crude slates for maximum economic benefit
- Minimizes phosphorous impact on downstream catalysts
- Minimizes phosphorus poisoning of downstream catalysts
- One component of the SMARTGUARD high temperature corrosion control toolbox

SMARTGUARD 2820











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Separated oil from water, dehydrating the oil and reducing waste

- Replacements to traditional metal-based coagulants which can impact biological systems
- More effective on colloidal particulates for improved compliance on TSS or pretreatment
- Replacements to traditional polyacrylamide flocculant chemistries with easier simpler make down and Injection systems
- Metals removal from water process systems and so aids environmental compliance
- Reduces sludges volumes and in turn operational costs
- Improved oil / water separation performance and can be used in desalter, slop tanks, water draw systems

SPECTRACLEAR

greener option chemistry for wastewater treatment















ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Separated oil from water, dehydrating the oil and reducing waste

- Replacements to traditional metal-based coagulants which can impact biological systems
- More effective on colloidal particulates for improved compliance on TSS or pretreatment
- Replacements to traditional polyacrylamide flocculant chemistries with easier simpler make down and Injection systems
- Metals removal from water process systems and so aids environmental compliance
- · Reduces sludges volumes and in turn operational costs
- Improved oil / water separation performance and can be used in desalter, slop tanks, water draw systems

SPECTRACLEAR*

greener option chemistry for wastewater treatment









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

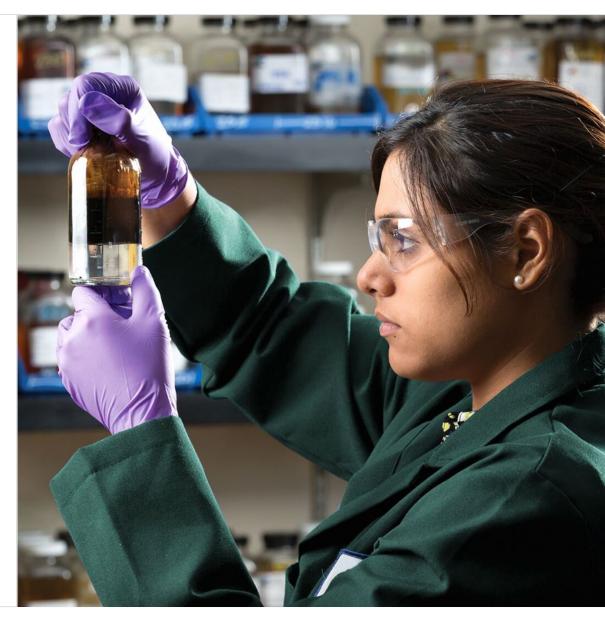
Generate the data to make the best financial outcomes

- Process-simulation based tool
- Utilizes proprietary amine/HCI thermodynamic data
- Provides data to assess risk of overhead corrosion and determine appropriate mitigative actions



corrosion risk monitor











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

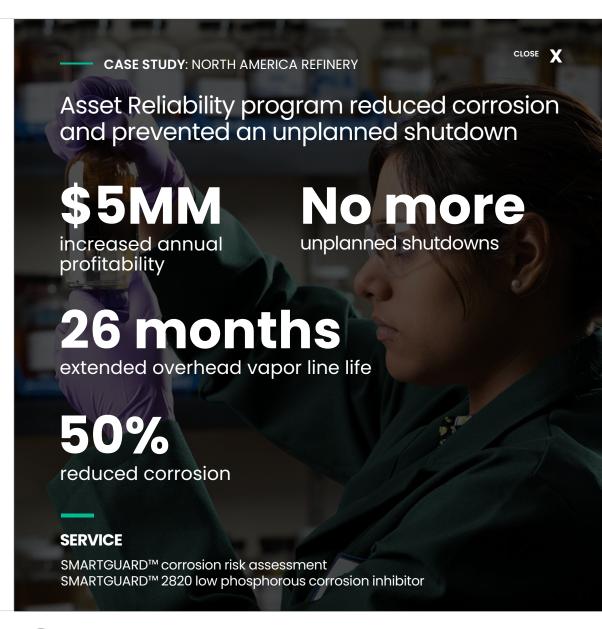
Crude Oil Management™

Generate the data to make the best financial outcomes

- Process-simulation based tool
- Utilizes proprietary amine/HCl thermodynamic data
- Provides data to assess risk of overhead corrosion and determine appropriate mitigative actions



corrosion risk monitor









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Proactively manage crude unit overhead corrosion risk

- · Refinery-based technology for tramp amine measurement
- Provides data in as little as one hour for input to the CRM
- Allows refiner to make timely decisions

TOPGUARD

field amine measurement services













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

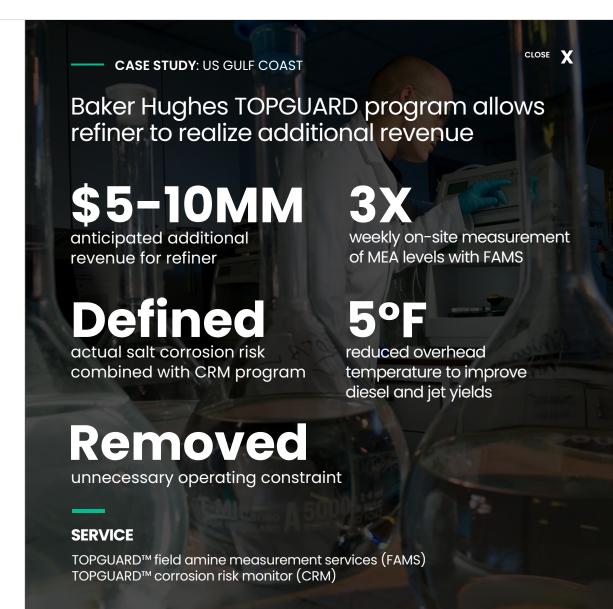
Crude Oil Management™

Proactively manage crude unit overhead corrosion risk

- Refinery-based technology for tramp amine measurement
- Provides data in as little as one hour for input to the CRM
- Allows refiner to make timely decisions

TOPGUARD

field amine measurement services









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Manage corrosion risks in refinery overhead systems

- Utilizes toolbox of chemical, engineering and instrument technologies
- · Maintains Integrity of process equipment
- Provides tools to push operating window for maximum profitability without risking asset reliability or limiting product focus
- Allows refiner to make informed decisions to maximize refinery profit via:
 - Increased discounted crude processing
 - Optimized operating envelope
 - Extended asset life, reduced maintenance costs
 - Avoiding unplanned shutdowns

TOPGUARD*

overhead system corrosion control











ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Manage corrosion risks in refinery overhead systems

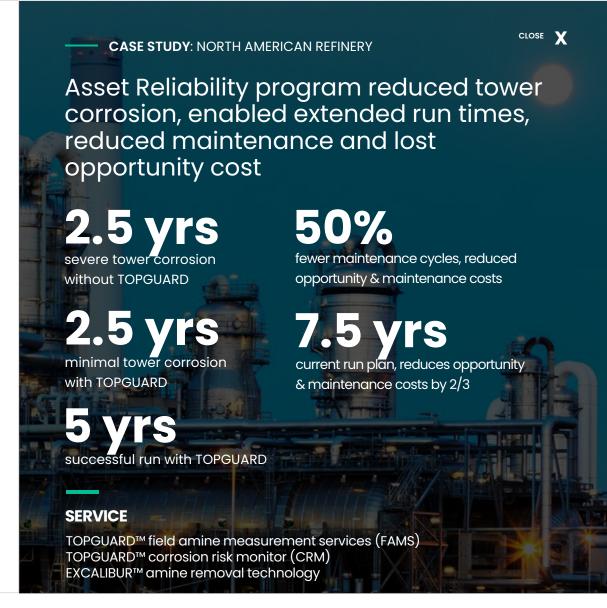
- Utilizes toolbox of chemical, engineering and instrument technologies
- · Maintains Integrity of process equipment
- Provides tools to push operating window for maximum profitability without risking asset reliability or limiting product focus
- Allows refiner to make informed decisions to maximize refinery profit via:
 - Increased discounted crude processing
 - Optimized operating envelope
 - Extended asset life, reduced maintenance costs
 - Avoiding unplanned shutdowns

TOPGUARD*

overhead system corrosion control













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Minimize corrosion caused by amine and ammonia hydrochloride salts

- · Enables increased opportunity crude processing
- Extends equipment life
- Avoids unplanned unit shutdown for repair
- Increases operating profitability

TOPGUARD 1130

salt control additive















ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

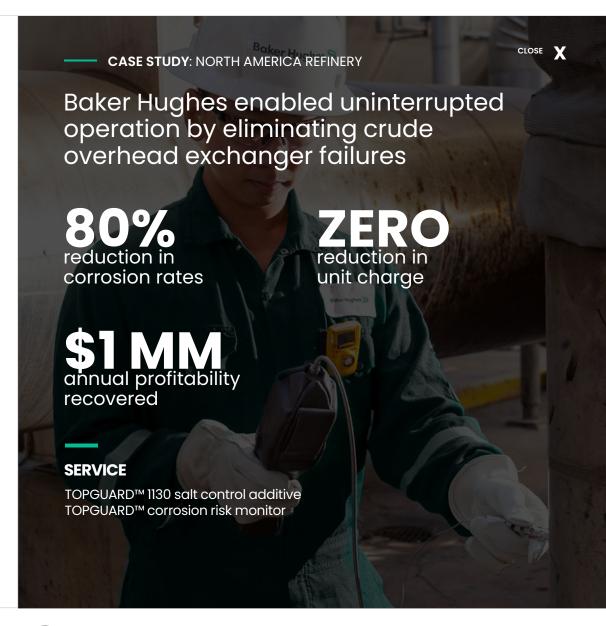
Crude Oil Management™

Minimize corrosion caused by amine and ammonia hydrochloride salts

- · Enables increased opportunity crude processing
- Extends equipment life
- Avoids unplanned unit shutdown for repair
- Increases operating profitability

TOPGUARD 1130

salt control additive









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Successfully prevent corrosive salt formation

- Assesses feasibility of water washing to manage salt corrosion
- Provides engineering-based wash water equipment design
- Extend equipment life
- Reduces maintenance and repair costs

TOPGUARD

spray model









ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

Improve feed flexibility while maximizing throughput

Toolbox

- Specialty demulsifiers for tank pretreatment of crude oils
- XERIC demulsifiers for heavy oil processing
- Fast water drop additives for under-sized desalter equipment
- LIFESPAN Blending Model and Asphaltene Stabilizer products
- Slop Oil Management
- · Desalter optimization

Provides stable desalting operations

- Excellent salt removal
- Improved brine quality
- Reduced re-run of emulsion (slop)













ALCHEMIA™ contaminant removal

ALCHEMIA™ solid removal

ALCHEMIA™ sulfur removal

BIOQUEST™ renewable fuel technologies

DEMANDTRAC™ tagged polymers for scale control

FLO™ NOW instant drag reduction

LIFESHIELD™ non P corrosion inhibitor for cooling towers

LIFESPAN™ blending model

SMARTGUARD™ 2820 low phosphorous corrosion control inhibitor

SPECTRACLEAR™ greener option chemistry for wastewater treatment

TOPGUARD™ corrosion risk monitor

TOPGUARD™ field amine monitoring

TOPGUARD™ overhead corrosion control

TOPGUARD™ 1130 salt control

TOPGUARD™ spray modeling

Crude Oil Management™

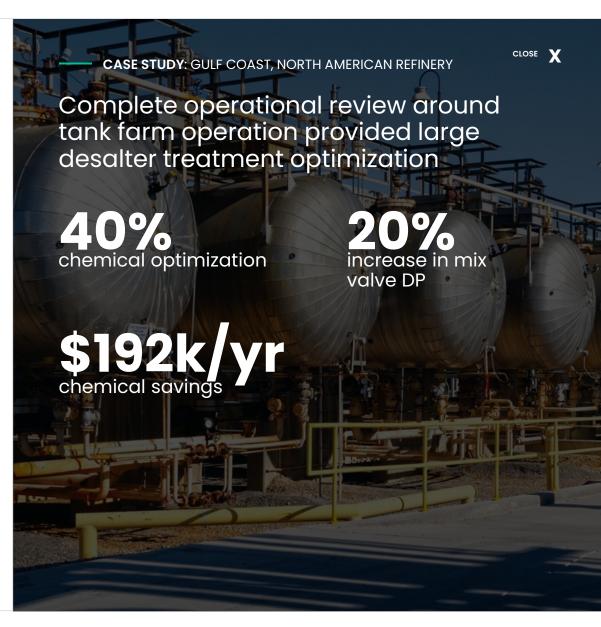
Improve feed flexibility while maximizing throughput

Toolbox

- Specialty demulsifiers for tank pretreatment of crude oils
- · XERIC demulsifiers for heavy oil processing
- Fast water drop additives for under-sized desalter equipment
- LIFESPAN Blending Model and Asphaltene Stabilizer products
- · Slop Oil Management
- · Desalter optimization

Provides stable desalting operations

- · Excellent salt removal
- Improved brine quality
- Reduced re-run of emulsion (slop)









Baker Hughes >