

FUEL REPORT

ISO

Machine Id

CYRUSONE MAIN TANK 2

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is a high amount of particulates present in the fuel. Moderate concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

•) (GAL)		Oct2019	Jun2020	May2021 Oct2023	May2024	
Sample Date Client Info 28 May 2024 12 Oct 2023 03 May 2021 Machine Age hrs Client Info 0 0 0 0 Sample Date imit/base ATTENTION ABNORMAL NORMAL PHYSICAL PROPERTIES method imit/base current history1 history2 Specific Gravity 'ASTM D1290 0.839 0.842 0.844 Fuel Color textr<'/td> 'MSTM D1500 L4.5 L4.5 L6.0 Visc @ 40°C cSI ASTM D445 8.0 2.42 2.43 2.42 Persky-Martnes Flash Point °C 'PRUC Guidated 52 59.6 58 62 Sulfur (UVF) ppm ASTM D5453 7 7 7 7 DISTILLATION method Imit/base current history1 history2 Sulfur (UVF) ppm ASTM D56 210 202 198 199 Tiff-S bistillation Point °C ASTM D86 210 207 <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age Sample Status Ins Client Info 0 0 0 0 PHYSICAL PROPERTIES method imilibase current history1 NDRMAL PHYSICAL PROPERTIES method imilibase current history1 NDRMAL Specific Gravity 'ASTM Di289 0.839 0.842 0.844 Fuel Color text 'Visual Screen YIlow Red Red Red ASTM Color scalar 'ASTM Di289 0.839 0.842 0.844 Status 'Sam Di20 class L4.5 L4.5 L6.0 Visc @ 40°C cSt ASTM Di289 0 1 2.42 2.43 2.42 Sulfur pm ASTM D5185m 10 2 0 18 Sulfur (UVF) pm ASTM D5453 7 7 7 7 DISTILLATION method imilibase current history1 history2 Misbiliation Point °C	Sample Number		Client Info		WC0929961	WC0869457	WCDF03700
Sample Status ATTENTION ABNORMAL NORMAL PHYSICAL PROPERTIES method imit/base current history1 history2 Specific Gravity YASTM D1288 0.839 0.842 0.844 Fuel Color text Visual Screen VIlow Red Red Red ASTM Color scalar XSTM D1500 L4.5 L4.5 L6.0 Visce @ 40°C cst1 ASTM D445 8.0 2.42 2.43 2.42 Sulfur ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D56 192 187 189 199 10% Distillation Point °C ASTM D86 210 202	Sample Date		Client Info		28 May 2024	12 Oct 2023	03 May 2021
PHYSICAL PROPERTIES method limit/base current history1 history2 Specific Gravity ''ASTM D1288 0.839 0.842 0.844 Fuel Color text 'Visual Seen 'Nlow Red Red Red ASTM Color scalar 'ASTM D1500 L4.5 L4.5 L4.5 L6.0 Visc @ 40°C cSt ASTM D445 3.0 2.42 2.43 2.42 Persky-Martens Flash Point °C 'PR/CCdudated 52 59.6 58 62 SULFUR CONTENT method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5458 10 2 0 18 Sulfur (UVF) ppm ASTM D66 155 170 162 162 Sulfur (UVF) ppm ASTM D66 192 187 189 10% Distillation Point °C ASTM D66 210 207 208 Subfur (UVF) ppm <td< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></td<>	Machine Age	hrs	Client Info		0	0	0
Specific Gravity 'ASTM D1298 0.839 0.842 0.844 Fuel Color text 'Visual Screen Yllow Red Red Red ASTM Color scalar 'ASTM D1500 L4.5 L4.5 L6.0 Visc @ 40°C cSt ASTM D445 3.0 2.42 2.43 2.42 Pensky-Mattens Flash Point 'C 'PMCC Calculated 52 59.6 58 62 SULFUR CONTENT method imit/base current history1 history2 Sulfur (UVF) ppm ASTM D5453 7 7 7 DISTILLATION method imit/base current history1 history2 Sulfur (UVF) ppm ASTM D86 192 187 189 10% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 230 232 232 230 20% Distill Point °C ASTM D86 255 <	Sample Status				ATTENTION	ABNORMAL	NORMAL
Fuel Color text Visual Screen YIIow Red Red Red Red ASTM Color scalar 'ASTM D1500 L4.5 L4.5 L6.0 Vise @ 40°C CSt ASTM D445 3.0 2.42 2.43 2.42 Pensky-Mattens Flash Point "C 'PMCC Caculated 52 59.6 58 62 SULFUR CONTENT method Imit/base current history1 history2 Sulfur ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D86 165 170 162 162 Sv6 bistillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 245 50% Distill Point °C ASTM D	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color scalar 'ASTM D1500 L4.5 L4.5 L6.0 Visc @ 40°C cSt ASTM D445 3.0 2.42 2.43 2.42 Pensky-Martens Flash Point 'C 'PIICC Calculated 52 59.6 58 62 SULFUR CONTENT method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5655 10 2 0 18 Sulfur (UVF) ppm ASTM D5655 170 162 162 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 230 232 232 230 20% Distill Point °C ASTM D86 255 259 260 260 260 20% Distill Point °C ASTM	Specific Gravity		*ASTM D1298	0.839		0.842	0.844
Visc @ 40°C cSt ASTM D445 3.0 2.42 2.43 2.42 Pensky-Martens Flash Point °C 'PMC0 Cadaded 52 59.6 58 62 SUlFUR CONTENT method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5453 7 7 7 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 10% Distill Point °C ASTM D86 201 202 198 199 15% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 230 232 232 230 20% Distill Point °C ASTM D86 255 259 260 260 20% Distill Point <	Fuel Color	text	*Visual Screen	Yllow	Red	Red	Red
Penesky-Martens Flash Point °C 'PMCC claudaded 52 59.6 58 62 SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5185m 10 2 0 18 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 Sock Distillation Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 216 217 216 216 20% Distill Point °C ASTM D86 230 232 232 230 230 05% Distill Point °C ASTM D86 230 231 246 246 246 05% Distill Point °C ASTM D86 295 305 306 <	ASTM Color	scalar	*ASTM D1500		L4.5	L4.5	L6.0
SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185n 10 2 0 18 Sulfur (UVF) ppm ASTM D5453 7 7 7 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 10% Distillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 230 232 232 230 20% Distill Point °C ASTM D86 243 246 246 245 20% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 286 325 306 309 85% Distillation Point °C ASTM	Visc @ 40°C	cSt	ASTM D445	3.0		2.43	
Sulfur ppm ASTM D5185m 10 2 0 18 Sulfur (UVF) ppm ASTM D5453 7 7 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 5% Distillation Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 267 274 274 275 50% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86	Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.6	58	62
Sulfur (UVF) ppm ASTM D5453 7 7 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 Six Distillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 230 232 232 230 20% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 30% Distill Point °C ASTM D86 315 316 319 30% Distill Point °C ASTM D86 30 1.4 1.4 30% Distill Point °C ASTM D86 30	SULFUR CONTER	NT	method	limit/base	current	history1	history2
DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 165 170 162 162 5% Distillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 20% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 267 274 274 275 50% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distill Point °C ASTM D86 310 326 327 329 90% Distill Point °C ASTM D86 3.0 1.4 1.4 Distillation Point °C	Sulfur	ppm	ASTM D5185m	10	2	0	18
Initial Boiling Point °C ASTM D86 165 170 162 162 5% Distillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 267 274 275 270 50% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86 342 343 344 Final Boiling Point °C ASTM D86 3.0 1.4 1.4 Distillation Point °C ASTM D86 <td>Sulfur (UVF)</td> <td>ppm</td> <td>ASTM D5453</td> <td></td> <th>7</th> <td>7</td> <td>7</td>	Sulfur (UVF)	ppm	ASTM D5453		7	7	7
5% Distillation Point °C ASTM D86 192 187 189 10% Distill Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 80% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86 342 343 344 Final Boiling Point °C ASTM D86 3.0 1.4 1.4 Distillation Residue % </td <td>DISTILLATION</td> <td></td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	DISTILLATION		method	limit/base	current	history1	history2
10% Distill Point °C ASTM D86 201 202 198 199 15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 80% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 210 342 343 344 Final Boiling Point °C ASTM D86 3.0 1.4 1.4 Distillation Point °C ASTM D86 3.0 1.4 1.4 Distillation Residue % ASTM D86 3.0 1.4 1.4 <	Initial Boiling Point	°C	ASTM D86	165	170	162	162
15% Distillation Point °C ASTM D86 210 207 208 20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 60% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 310 326 327 329 90% Distill Point °C ASTM D86 341 356 350 351 Distillation Point °C ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 1.4 1.4	5% Distillation Point	°C	ASTM D86		192	187	189
20% Distill Point °C ASTM D86 216 217 216 216 30% Distill Point °C ASTM D86 230 232 232 230 40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 50% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 30% Distill Point °C ASTM D86 295 305 306 309 35% Distillation Point °C ASTM D86 310 326 327 329 36% Distillation Point °C ASTM D86 3.0 1.4 1.4 Final Boiling Point °C ASTM D86 3.0 0.9 0.9 Idstillation Loss % ASTM D86 3.0 1.4 1.4 D	10% Distill Point	°C	ASTM D86	201	202	198	199
30% Distill Point °C ASTM D86 230 232 232 232 230 40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 50% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 30% Distill Point °C ASTM D86 295 305 306 309 35% Distillation Point °C ASTM D86 295 305 306 319 30% Distill Point °C ASTM D86 310 326 327 329 35% Distillation Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 <td>15% Distillation Point</td> <td>°C</td> <td>ASTM D86</td> <td></td> <th>210</th> <td>207</td> <td>208</td>	15% Distillation Point	°C	ASTM D86		210	207	208
40% Distill Point °C ASTM D86 243 246 246 245 50% Distill Point °C ASTM D86 255 259 260 260 50% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 30% Distill Point °C ASTM D86 295 305 306 309 35% DistillAtion Point °C ASTM D86 295 305 316 319 30% Distill Point °C ASTM D86 310 326 327 329 35% Distillation Point °C ASTM D86 310 326 350 351 30% Distill Point °C ASTM D86 3.0 1.4 1.4 Distillation Residue % ASTM D86 3.0 0.9 0.9 GINITION QUALITY method limit/base current history1 history2 API Gravity ASTM D5185m <1.0	20% Distill Point		ASTM D86	216	217	216	216
50% Distill Point °C ASTM D86 255 259 260 260 60% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 115 316 319 90% Distill Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D777 37.7 36 36.6 36.2 Cetane Index ASTM D777 37.7 36 36.6 36.2 Silicon <	30% Distill Point	°C		230	232	232	230
60% Distill Point °C ASTM D86 267 274 274 275 70% Distill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 215 315 316 319 90% Distill Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D777 37.7 36 36.6 36.2 CONTAM	40% Distill Point		ASTM D86	243	246	246	245
Constill Point °C ASTM D86 280 288 289 291 80% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D5185m <1.0	50% Distill Point	°C	ASTM D86	255	259	260	260
B0% Distill Point °C ASTM D86 295 305 306 309 85% Distillation Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D5185m <1.0	60% Distill Point		ASTM D86	267	274	274	275
B5% Distillation Point °C ASTM D86 315 316 319 90% Distill Point °C ASTM D86 310 326 327 329 95% Distillation Point °C ASTM D86 342 343 344 Final Boiling Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D777 37.7 36 36.6 36.2 ContrAminAntr ASTM D5185m <1.0	70% Distill Point		ASTM D86	280		289	291
90% Distill Point°CASTM D8631032632732995% Distillation Point°CASTM D864342343344Final Boiling Point°CASTM D86341356350351Distillation Residue%ASTM D863.01.41.4Distillation Loss%ASTM D863.00.90.9IGNITION QUALITYmethodlimit/basecurrenthistory1history2API GravityASTM D77737.73636.636.2Cetane Index4ASTM D737<40.0	80% Distill Point			295			309
95% Distillation Point °C ASTM D86 342 343 344 Final Boiling Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D777 37.7 36 36.6 36.2 Cetane Index ASTM D4737 <40.0							
Final Boiling Point °C ASTM D86 341 356 350 351 Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D777 37.7 36 36.6 36.2 Cetane Index ASTM D4737 <40.0				310			
Distillation Residue % ASTM D86 3.0 1.4 1.4 Distillation Loss % ASTM D86 3.0 0.9 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D777 37.7 36 36.6 36.2 Cetane Index ASTM D4737 <40.0							
Distillation Loss%ASTM D863.00.90.9IGNITION QUALITYmethodlimit/basecurrenthistory1history2API GravityASTM D777737.73636.636.2Cetane IndexASTM D4737<40.0	0						
IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 37.7 36 36.6 36.2 Cetane Index ASTM D4737 <40.0							
API Gravity ASTM D7777 37.7 36 36.6 36.2 Cetane Index ASTM D4737 <40.0 47 47.5 46.8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 0 0 0 Sodium ppm ASTM D5185m <0.1 <1 0 1 Potassium ppm ASTM D5185m <0.1 0 <1 <1 Water % ASTM D6304 <0.05 0.005 0.006 0.014 oppm Water ppm ASTM D6304 <500 57 62.6 143.7 % Gasoline % *In-House <0.50 0.0 0.0 0.0							
Cetane Index ASTM D4737 <40.0 47 47.5 46.8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0		ΓY					
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<<1.0	,						
Silicon ppm ASTM D5185m <1.0 0 0 0 Sodium ppm ASTM D5185m <0.1	Cetane Index		ASTM D4737	<40.0	47	47.5	46.8
Sodium ppm ASTM D5185m <0.1 <1 0 1 Potassium ppm ASTM D5185m <0.1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m <0.1 0 <1 <1 Water % ASTM D6304 <0.05	Silicon	ppm	ASTM D5185m	<1.0			
Water % ASTM D6304 <0.05 0.005 0.006 0.014 opm Water ppm ASTM D6304 <500	Sodium	ppm	ASTM D5185m	<0.1	<1	0	1
opm Water ppm ASTM D6304 <500 57 62.6 143.7 % Gasoline % *In-House <0.50 0.0 0.0 0.0							
% Gasoline % *In-House <0.50 0.0 0.0 0.0		%					
							143.7
% Biodiesel % *In-House <20.0 1.8 1.9 3.7							
	% Biodiesel	%	*In-House	<20.0	1.8	1.9	3.7



FUEL REPORT

Particles >4µm

Particles >6µm

Particles >14µm

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

>2500

>4

ISO 4406 (c) >18/16/13 **25/24/21**

165359

102065

16307

4458

187

12

ASTM D7647

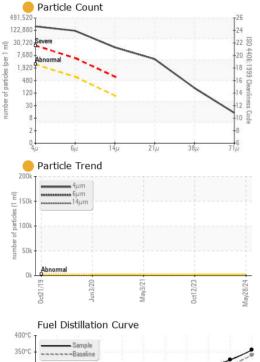
ASTM D7647

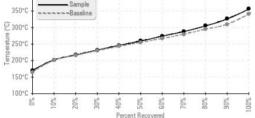
ASTM D7647 >640

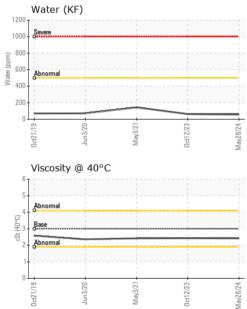
ASTM D7647 >80

ASTM D7647 >20

ASTM D7647 >3

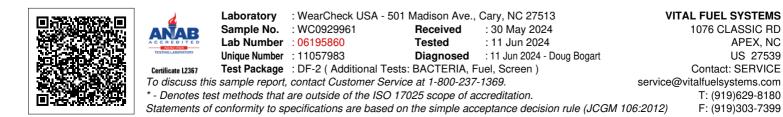






C15/12

21µ	38 ^j µ	71µ	MICROBIAL		method	limit/base	current	history1	his
			Bacteria	CFU/ml	WC-Method	>=100000	0	0	
			Yeast	CFU/ml	WC-Method	>=100000	0	0	
			Mold	Colonies	WC-Method	MODER			
			HEAVY METALS		method	limit/base	current	history1	his
			Aluminum	ppm	ASTM D5185m	<0.1	0	0	<1
			Nickel	ppm	ASTM D5185m	<0.1	0	0	1
4	23	24	Lead	ppm	ASTM D5185m	<0.1	0	0	0
Oct12/	0ct12/23	May28/24	Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
		2	Iron	ppm	ASTM D5185m	<0.1	<1	1	<1
			Calcium	ppm	ASTM D5185m	<0.1	<1	<1	2
			Magnesium	ppm	ASTM D5185m	<0.1	0	<1	0
			Phosphorus	ppm	ASTM D5185m	<0.1	<1	5	3
-	and a rank		Zinc	ppm	ASTM D5185m	<0.1	0	0	0
			SAMPLE IMAGES	3	method	limit/base	current	history1	his
ecovered	70% -	90% -	Color						
		Bottom							
a no los los la	0ct12/23 -	May28/24 -							



Contact/Location: SERVICE ? - VITAPE

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