

FUEL REPORT

Sample Rating Trend

WATER

Machine Id Legacy Heights 100kW

Component **Diesel Fuel**

Fluid No.2 DIESEL FUEL (LOW-SULPHUR) (560 G

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. All other laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Corrosion

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

Contaminants

Moderate concentration of visible dirt/debris present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

		-				
iAL)			Jan2022	Jun2023		
SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0829192	WC0580746	
Sample Date		Client Info		14 Jun 2023	31 Jan 2022	
Age	hrs	Client Info		944	944	
ample Status				ABNORMAL	ATTENTION	
PHYSICAL PROP	ERTIES	method	limit/base	current	history 1	history 2
Specific Gravity		*ASTM D1298	0.839	0.841	0.842	
uel Color	text	*Visual Screen	Yllow	Red	Red	
STM Color	scalar	*ASTM D1500		L4.0	L4.0	
′isc @ 40°C	cSt	ASTM D445	3.0	2.46	2.46	
ensky-Martens Flash Point	°C	*PMCC Calculated	52	61	64	
Cloud Point	°C	ASTM D5771		-13	-13	
Pour Point	°C	ASTM D5950		-35	-37	
SULFUR CONTEN	NT	method	limit/base	current	history 1	history 2
Sulfur	ppm	ASTM D5185m	250	317	267	
Sulfur (UVF)	ppm	ASTM D5453		224	277	
DISTILLATION		method	limit/base	current	history 1	history 2
nitial Boiling Point	°C	ASTM D86	165	168	156	
% Distillation Point	°C	ASTM D86		192	185	
0% Distill Point	°C	ASTM D86	201	203	201	
5% Distillation Point	°C	ASTM D86		210	212	
20% Distill Point	°C	ASTM D86	216	218	219	
80% Distill Point	°C	ASTM D86	230	231	232	
0% Distill Point	°C	ASTM D86	243	245	245	
50% Distill Point	°C	ASTM D86	255	258	258	
0% Distill Point	°C	ASTM D86	267	272	272	
70% Distill Point	°C	ASTM D86	280	286	286	
80% Distill Point	°C	ASTM D86	295	303	302	
5% Distillation Point	°C	ASTM D86	200	312	312	
0% Distill Point	°C	ASTM D86	310	323	323	
5% Distillation Point	°C	ASTM D86	010	340	339	
Final Boiling Point	°C	ASTM D86	341	349	349	
Distillation Residue	%	ASTM D86		1.4	1.4	
Distillation Loss	%	ASTM D86	3.0	0.6	0.4	
IGNITION QUALIT	ΓY	method	limit/base	current	history 1	history 2
API Gravity		ASTM D7777	37.7	36.8	36.6	
Cetane Index		ASTM D4737	<40.0	47.8	47.4	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	<1.0	0	0	
Sodium	ppm	ASTM D5185m	<0.1	0	0	
Potassium	ppm	ASTM D5185m	<0.1	0	0	
Vater	%	ASTM D6304	< 0.05	0.005	0.003	
pm Water	ppm	ASTM D6304	<500	58.1	34.3	
6 Gasoline	%	*In-House	< 0.50	0.0	0.0	



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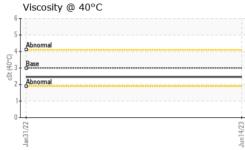
method

CFU/ml WC-Method >=100000

MICROBIAL

Bacteria





Yeast	CFU/ml	WC-Method	>=100000	0		
Mold	Colonies	WC-Method	MODER			
HEAVY METALS		method	limit/base	current	history 1	history 2
Aluminum	ppm	ASTM D5185m	<0.1	0	<1	
Nickel	ppm	ASTM D5185m	<0.1	<1	0	
Lead	ppm	ASTM D5185m	<0.1	0	0	
Vanadium	ppm	ASTM D5185m	<0.1	0	0	
Iron	ppm	ASTM D5185m	<0.1	0	<1	
Calcium	ppm	ASTM D5185m	<0.1	0	2	
Magnesium	ppm	ASTM D5185m	<0.1	0	0	
Phosphorus	ppm	ASTM D5185m	<0.1	<1	8	
Zinc	ppm	ASTM D5185m	<0.1	0	0	
SAMPLE IMAGES	S	method	limit/base	current	history 1	history 2
Color						no image

limit/base

current

0

history 1

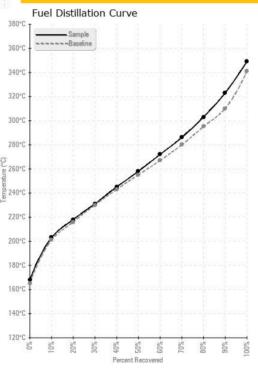
Viscosity @ 40°C



history 2

GRAPHS

Bottom



: WearCheck USA - 501 Madison Ave., Cary, NC 27513

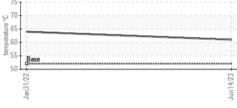
: 21 Jun 2023

: 05 Jul 2023

Received

Diagnosed

Pensky-Martens Flash Point (°C)



ALTERNATIVE POWER 1000 NORTHGATE CT MOBBISVILLE NC

MORRISVILLE, NC US 27560 Contact: RYAN BAILEY ryan.bailey@bittingelectric.com T: (919)467-9417 012) F:



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Jan31/22

 Unique Number
 : 10525514
 Diagnostician
 : Doug Bogart

 Certificate 12367
 Test Package
 : DF-3 (Additional Tests: Bacteria, Screen)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WC0829192

: 05880411

Laboratory Sample No.

Lab Number

Submitted By: ROBERT MCARTHUR

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