

## **FUEL REPORT**



#### Machine Id CLT WEST Component Jet Fuel Fluid JET FUEL Type A (--- GAL)

#### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 Jet-A fuel.

#### Wear

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

#### Contamination

There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

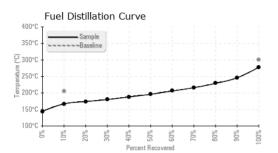
Sulfur value derived by ASTM D5453 method for ULSD validation.

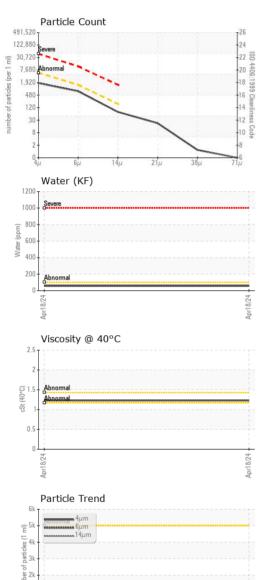
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06155021		
Sample Date		Client Info		18 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
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PHYSICAL PROP	ERTIES		limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.802		
Fuel Color	text	*Visual Screen		Clear		
ASTM Color	scalar	*ASTM D1500	0.0	L0.5		
Visc @ 40°C	cSt	ASTM D445	<8.0	1.23		
Pensky-Martens Flash Point	°C	*PMCC Calculated	38	42.6		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	<3000	1036		
Sulfur (UVF)	ppm	ASTM D5453		759		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		144		
5% Distillation Point	°C	ASTM D86		163		
10% Distill Point	°C	ASTM D86	205	167		
15% Distillation Point	°C	ASTM D86		170		
20% Distill Point	°C	ASTM D86		174		
30% Distill Point	°C	ASTM D86		180		
40% Distill Point	°C	ASTM D86		188		
50% Distill Point	°C	ASTM D86		196		
60% Distill Point	°C	ASTM D86		206		
70% Distill Point	°C	ASTM D86		216		
80% Distill Point	°C	ASTM D86		229		
85% Distillation Point	°C	ASTM D86		237		
90% Distill Point	°C	ASTM D86		246		
95% Distillation Point	°C	ASTM D86		262		
Final Boiling Point	°C	ASTM D86	300	278		
Distillation Residue	%	ASTM D86	1.5	1.2		
Distillation Loss	%	ASTM D86	1.5	0.4		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	44	44.9		
Cetane Index		ASTM D4737	<40.0	45.1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.005		
ppm Water	ppm	ASTM D6304	<500	57		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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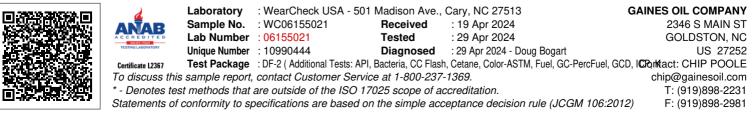
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FLUID CLEANLIN	FSS	method	limit/base	current	history1	history2
	200					
Particles >4µm		ASTM D7647	>5000	1591		
Particles >6µm		ASTM D7647	>1300	648		
Particles >14µm		ASTM D7647	>160	66		
Particles >21µm		ASTM D7647	>40	19		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/13		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	0		
Mold	Colonies	WC-Method	MODER			
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	3		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color					no image	no image
					no inago	no inage
Bottom					no image	no image



Contact/Location: CHIP POOLE - GAIGOL