

FUEL REPORT

Sample Rating Trend



Machine Id Component Jet Fuel

JET FUEL Type A (--- GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for Jet A fuel.

Wear

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

Contamination

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

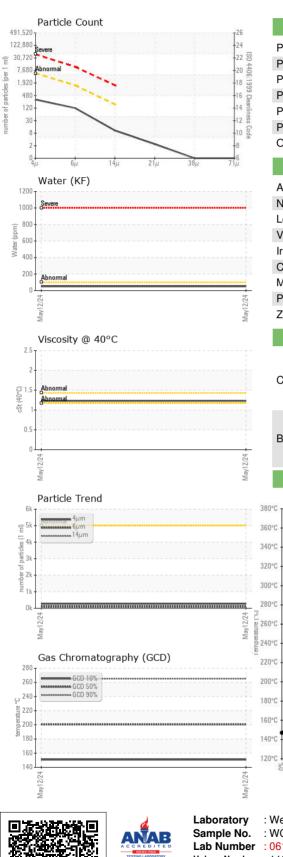
Fluid Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06178279		
Sample Date		Client Info		12 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.803		
Fuel Color	text	*Visual Screen		Clear		
ASTM Color	scalar	*ASTM D1500		L0.5		
Visc @ 40°C	cSt	ASTM D445	<8.0	1.23		
Pensky-Martens Flash Point	°C	*PMCC Calculated	38	42.9		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	<3000	1026		
Sulfur (UVF)	ppm	ASTM D5453		749		
DISTILLATION		method	limit/base	current	history1	history2
	°C	ASTM D86	innibase	147		
Initial Boiling Point 5% Distillation Point	°C	ASTM D86		147		
10% Distill Point	°C	ASTM D86	205	169		
15% Distillation Point	°C	ASTM D86	203	173		
20% Distill Point	°C	ASTM D86		173		
30% Distill Point	°C	ASTM D86		184		
40% Distill Point	°C	ASTM D86		191		
50% Distill Point	°C	ASTM D86		200		
60% Distill Point	°C	ASTM D86		210		
70% Distill Point	°C	ASTM D86		221		
80% Distill Point	°C	ASTM D86		234		
85% Distillation Point	°C	ASTM D86		242		
90% Distill Point	°C	ASTM D86		252		
95% Distillation Point	°C	ASTM D86		269		
Final Boiling Point	°C	ASTM D86	300	280		
Distillation Residue	%	ASTM D86	1.5	1.2		
Distillation Loss	%	ASTM D86	1.5	0.6		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	44	44.7		
Cetane Index		ASTM D4737	<40.0	45.6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	2		
Water	%	ASTM D6304	< 0.05	0.005		
ppm Water	ppm	ASTM D6304	<500	51		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



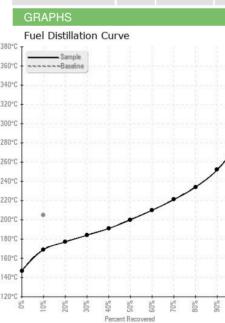
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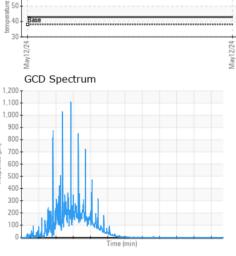


FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	272			
Particles >6µm		ASTM D7647	>1300	106			
Particles >14µm		ASTM D7647	>160	9			
Particles >21µm		ASTM D7647	>40	2			
Particles >38µm		ASTM D7647	>10	0			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/14/10			
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	<1			
Iron	ppm	ASTM D5185m	<0.1	0			
Calcium	ppm	ASTM D5185m	<0.1	0			
Magnesium	ppm	ASTM D5185m	<0.1	<1			
Phosphorus	ppm	ASTM D5185m	<0.1	<1			
Zinc	ppm	ASTM D5185m	<0.1	0			
SAMPLE IMAGES	3	method	limit/base	current	history1	history2	
Color					no image	no image	
Bottom					no image	no image	
GRAPHS							
Fuel Distillation Curve				Pensky-Martens Flash Point (°C)			
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Sample							
Sample			eratu	Base			
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GAINES OIL COMPANY : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06178279 Received : 13 May 2024 2346 S MAIN ST Lab Number : 06178279 Tested : 21 May 2024 GOLDSTON, NC Unique Number : 11029605 Diagnosed : 21 May 2024 - Doug Bogart US 27252 Test Package : DF-2 (Additional Tests: API, CC Flash, Cetane, Color-ASTM, Fuel, GC-PercFuel, GCD, ICP, KF, KV@onftact: CHIP POOLE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. chip@gainesoil.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)898-2231 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)898-2981

Report Id: GAIGOL [WUSCAR] 06178279 (Generated: 05/21/2024 12:05:16) Rev: 1

Contact/Location: CHIP POOLE - GAIGOL