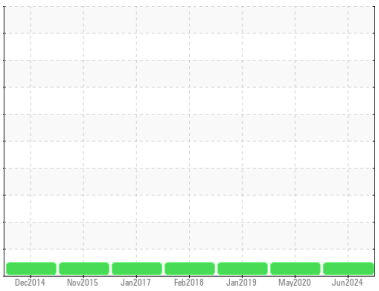
WAJAX POWER SYSTEMS SYSTÈMES DE PUISSANCE

FUEL REPORT

Sample Rating Trend



NORMAL

Area
[6100298921]
Machine Id
PERKINS U218161L
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation
Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Contaminants
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

Fuel Condition
All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0021952**	WA0013754	WA0012701
Sample Date		Client Info		**18 Jun 2024**	13 May 2020	10 Jan 2019
Machine Age	hrs	Client Info		**0**	298	297
Sample Status				**NORMAL**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.843**	0.842	0.843
Fuel Color	text	Visual Screen*	Yllow	**Yllow**	Yllow	Yllow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	**3.2**	3.1	3.0
Pensky-Martens Flash Point	°C	ASTM D7215*	52	**89.7**	87	83

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	**10**	9	5

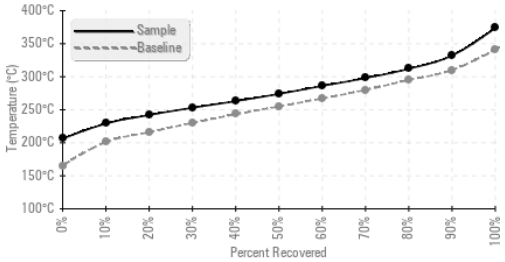
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**206**	193	189
5% Distillation Point	°C	ASTM D2887*		**222**	214	211
10% Distill Point	°C	ASTM D2887*	201	**229**	223	219
15% Distillation Point	°C	ASTM D2887*		**235**	227	225
20% Distill Point	°C	ASTM D2887*	216	**242**	234	231
30% Distill Point	°C	ASTM D2887*	230	**253**	245	243
40% Distill Point	°C	ASTM D2887*	243	**263**	257	256
50% Distill Point	°C	ASTM D2887*	255	**274**	270	269
60% Distill Point	°C	ASTM D2887*	267	**286**	284	282
70% Distill Point	°C	ASTM D2887*	280	**298**	298	297
80% Distill Point	°C	ASTM D2887*	295	**312**	313	312
85% Distillation Point	°C	ASTM D2887*		**322**	322	321
90% Distill Point	°C	ASTM D2887*	310	**332**	333	332
95% Distillation Point	°C	ASTM D2887*		**349**	346	346
Final Boiling Point	°C	ASTM D2887*	341	**374**	353	353
Distillation Residue	%	ASTM D86(e)*	3.0	**---**	1.4	1.4
Distillation Loss	%	ASTM D86(e)*	3.0	**---**	0.6	0.5

IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	**36**	36.6	36.4
Cetane Index	ASTM D4737*	<40.0	**52**	51.3	50.4

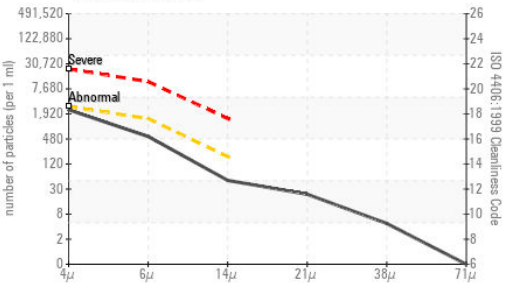
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	**0**	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Water	%	ASTM D6304*	<0.05	**0.00**	0.002	0.000
ppm Water	ppm	ASTM D6304*	<500	**0**	16.1	6.5

FUEL REPORT

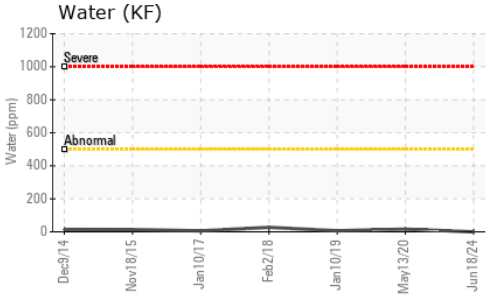
Fuel Distillation Curve



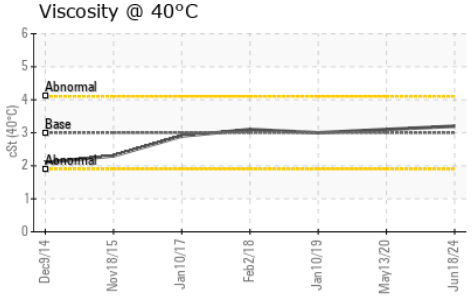
Particle Count



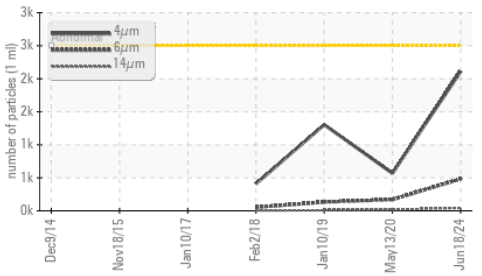
Water (KF)



Viscosity @ 40°C

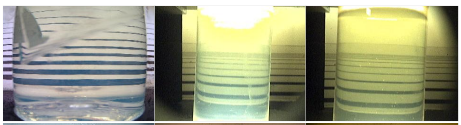


Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**2110**	569	1304
Particles >6µm		ASTM D7647	>1300	**484**	170	133
Particles >14µm		ASTM D7647	>160	**43**	16	9
Particles >21µm		ASTM D7647	>40	**20**	5	3
Particles >38µm		ASTM D7647	>10	**4**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/17/14	**18/16/13**	16/15/11	18/14/10

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Lead	ppm	ASTM D5185(m)	<0.1	**<1**	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Iron	ppm	ASTM D5185(m)	<0.1	**0**	<1	0
Calcium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Phosphorus	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Zinc	ppm	ASTM D5185(m)	<0.1	**0**	0	0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021952 **Received** : 26 Jun 2024
Lab Number : 02644258 **Tested** : 02 Jul 2024
Unique Number : 5801797 **Diagnosed** : 02 Jul 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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