



FUEL REPORT

Sample Rating Trend

ISO

Area

A21

Machine Id

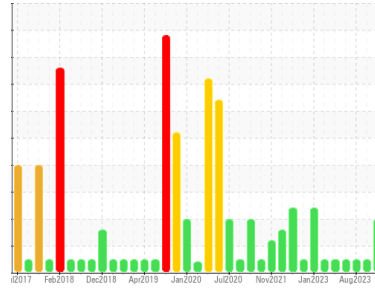
ADT911220 TANK RAW DIESEL SE PEDESTAL CRANE

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (260000 LTR)



DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. 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	PP13941989	PP13920747	PP13899605
Sample Date	Client Info	07 Jan 2024	07 Nov 2023	06 Aug 2023
Machine Age	hrs	0	0	0
Sample Status		ABNORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.853	0.848	0.837	
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	66.2	65	61.4

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	7	8	6

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	177	177	172
5% Distillation Point	°C	ASTM D2887*		205	200	192
10% Distill Point	°C	ASTM D2887*	201	215	211	203
15% Distillation Point	°C	ASTM D2887*		223	219	211
20% Distill Point	°C	ASTM D2887*	216	232	227	220
30% Distill Point	°C	ASTM D2887*	230	245	241	235
40% Distill Point	°C	ASTM D2887*	243	256	252	248
50% Distill Point	°C	ASTM D2887*	255	267	264	261
60% Distill Point	°C	ASTM D2887*	267	279	277	276
70% Distill Point	°C	ASTM D2887*	280	291	289	290
80% Distill Point	°C	ASTM D2887*	295	304	304	307
85% Distillation Point	°C	ASTM D2887*		315	315	319
90% Distill Point	°C	ASTM D2887*	310	325	326	331
95% Distillation Point	°C	ASTM D2887*		345	346	352
Final Boiling Point	°C	ASTM D2887*	341	371	373	385

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	34	35	37
Cetane Index	ASTM D4737*	<40.0	45	46	50

CONTAMINANTS

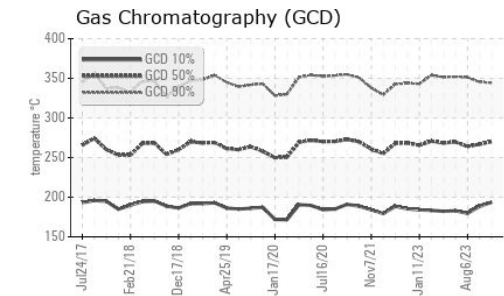
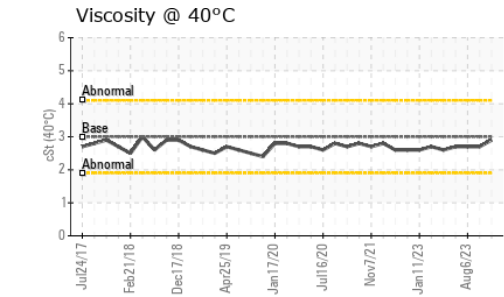
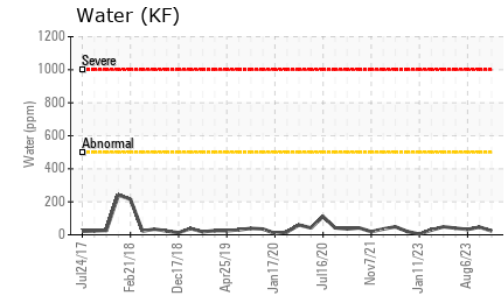
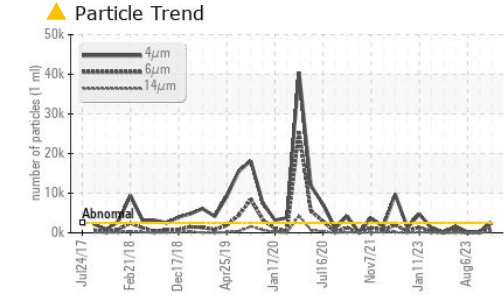
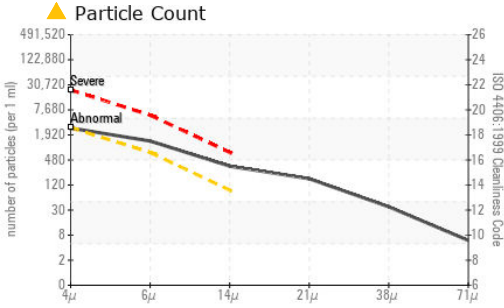
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	<1
Water	%	ASTM D6304*	<0.05	0.002	0.004	0.003
ppm Water	ppm	ASTM D6304*	<500	23	47	32.4

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	2449	297	93
Particles >6µm	ASTM D7647	>640	1199	72	23
Particles >14µm	ASTM D7647	>80	300	2	3
Particles >21µm	ASTM D7647	>20	150	1	1
Particles >38µm	ASTM D7647	>4	32	0	0
Particles >71µm	ASTM D7647	>3	5	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/17/15	15/13/9	14/12/9



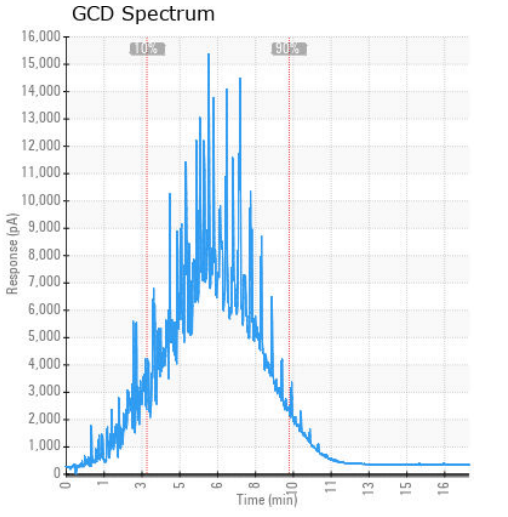
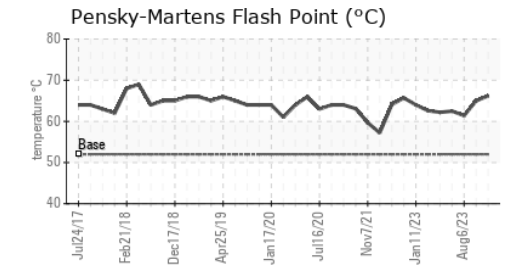
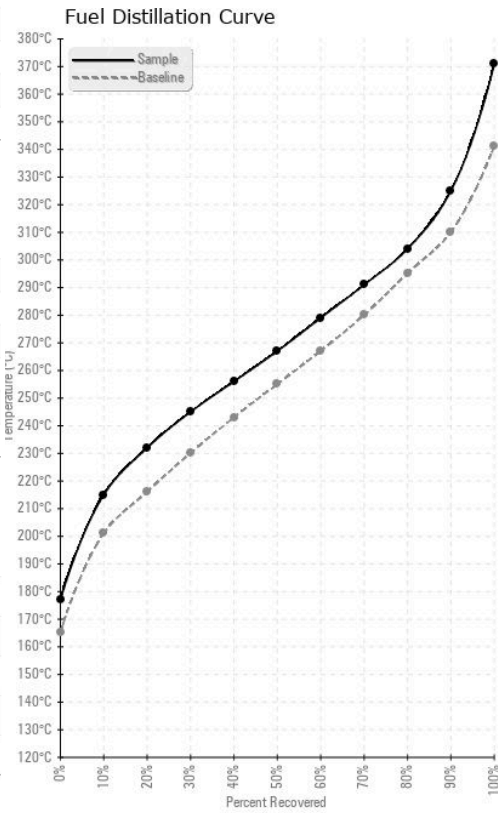
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	0	0
Lead	ppm	ASTM D5185(m)	<0.1	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1
Calcium	ppm	ASTM D5185(m)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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13941989 **Received** : 01 Apr 2024
Lab Number : 02625829 **Tested** : 03 Apr 2024
Unique Number : 5750948 **Diagnosed** : 03 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

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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.