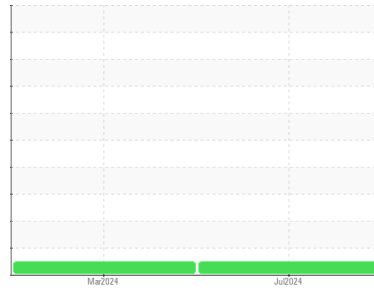




FUEL REPORT

Sample Rating Trend



NORMAL



Area
KONSTRUT
 Machine Id
SW50273
 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			WC0938144	WC0906287	---
Sample Date	Client Info			09 Jul 2024	27 Mar 2024	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.849	0.851	---
Fuel Color	text	Visual Screen*	Yellow	Yellow	Red	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6	2.8	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63.4	58.5	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	13	9	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	175	171	---
5% Distillation Point	°C	ASTM D2887*		204	201	---
10% Distill Point	°C	ASTM D2887*	201	214	212	---
15% Distillation Point	°C	ASTM D2887*		222	220	---
20% Distill Point	°C	ASTM D2887*	216	230	228	---
30% Distill Point	°C	ASTM D2887*	230	243	242	---
40% Distill Point	°C	ASTM D2887*	243	254	255	---
50% Distill Point	°C	ASTM D2887*	255	265	267	---
60% Distill Point	°C	ASTM D2887*	267	277	280	---
70% Distill Point	°C	ASTM D2887*	280	289	292	---
80% Distill Point	°C	ASTM D2887*	295	302	305	---
85% Distillation Point	°C	ASTM D2887*		312	315	---
90% Distill Point	°C	ASTM D2887*	310	322	325	---
95% Distillation Point	°C	ASTM D2887*		338	341	---
Final Boiling Point	°C	ASTM D2887*	341	358	367	---

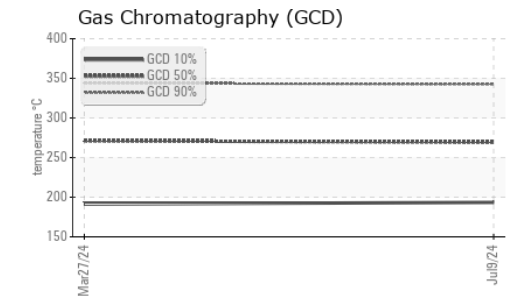
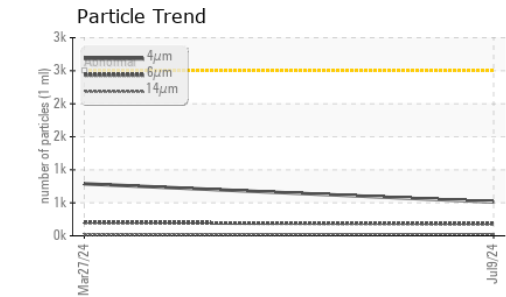
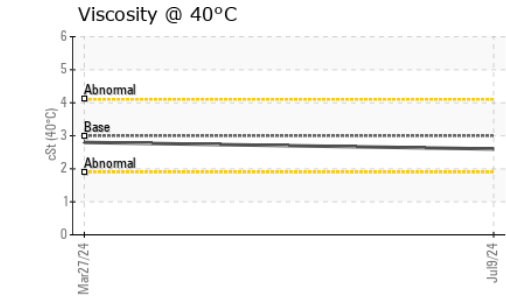
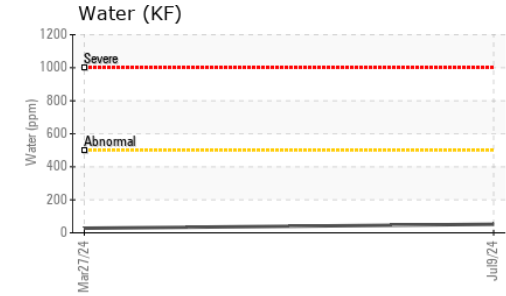
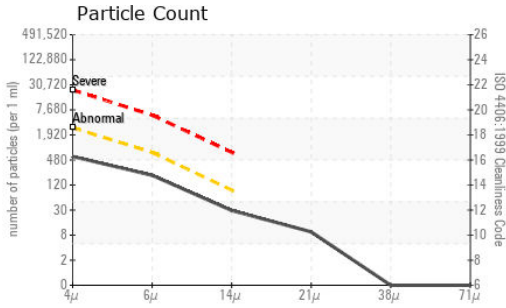
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35	34	---
Cetane Index		ASTM D4737*	<40.0	46	46	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	---
Water	%	ASTM D6304*	<0.05	0.005	0.003	---
ppm Water	ppm	ASTM D6304*	<500	52	28	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	512	788	---
Particles >6µm		ASTM D7647	>640	181	200	---
Particles >14µm		ASTM D7647	>80	26	16	---
Particles >21µm		ASTM D7647	>20	8	3	---
Particles >38µm		ASTM D7647	>4	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/12	17/15/11	---

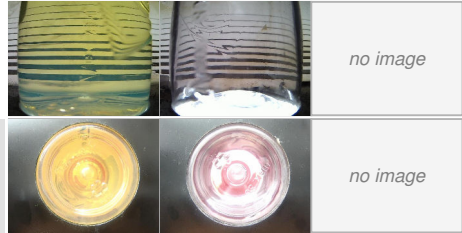


FUEL REPORT

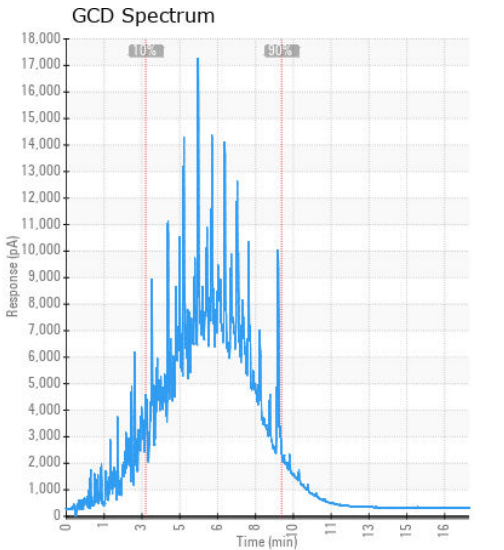
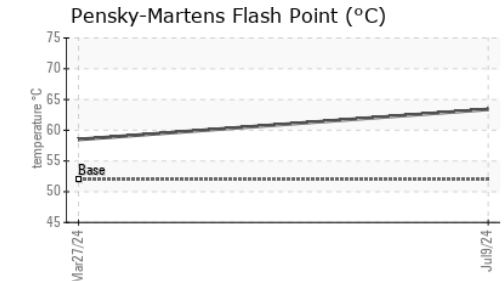
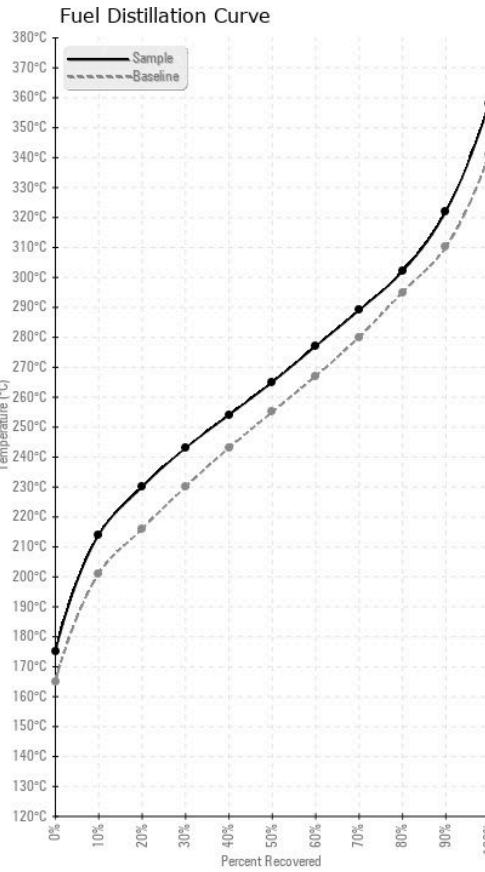


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	0	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	---
Magnesium	ppm	ASTM D5185(m)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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0938144 **Received** : 10 Jul 2024
Lab Number : **02647251** **Tested** : 15 Jul 2024
Unique Number : 5812803 **Diagnosed** : 15 Jul 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

KOBY BROTHERS
 1919 WILSON AVE
 TORONTO, ON
 CA M9M 1A9
 Contact: Grant Brouwer
 grant@kooybros.com
 T: (416)242-3513
 F: (416)242-6710

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.