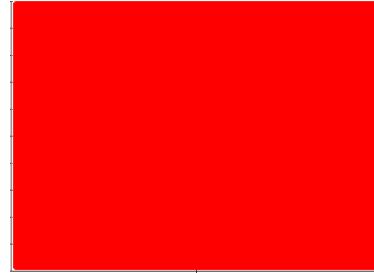




# FUEL REPORT

Sample Rating Trend

ISO



Machine Id  
**ISUZU 363989**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. Resample in 30-45 days to monitor this situation.

### Corrosion

Copper ppm levels are abnormal. The high metal levels indicate corrosion in the system.

### Contaminants

There is a high 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0499774</b>	---	---
Sample Date	Client Info			<b>09 Aug 2023</b>	---	---
Machine Age	kms	Client Info		<b>232072</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.844</b>	---	---
Fuel Color	text	Visual Screen*	Yllow	<b>Yllow</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.6</b>	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>58.8</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	<b>7</b>	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>169</b>	---	---
5% Distillation Point	°C	ASTM D2887*		<b>190</b>	---	---
10% Distill Point	°C	ASTM D2887*	201	<b>199</b>	---	---
15% Distillation Point	°C	ASTM D2887*		<b>207</b>	---	---
20% Distill Point	°C	ASTM D2887*	216	<b>215</b>	---	---
30% Distill Point	°C	ASTM D2887*	230	<b>231</b>	---	---
40% Distill Point	°C	ASTM D2887*	243	<b>247</b>	---	---
50% Distill Point	°C	ASTM D2887*	255	<b>263</b>	---	---
60% Distill Point	°C	ASTM D2887*	267	<b>282</b>	---	---
70% Distill Point	°C	ASTM D2887*	280	<b>300</b>	---	---
80% Distill Point	°C	ASTM D2887*	295	<b>317</b>	---	---
85% Distillation Point	°C	ASTM D2887*		<b>325</b>	---	---
90% Distill Point	°C	ASTM D2887*	310	<b>334</b>	---	---
95% Distillation Point	°C	ASTM D2887*		<b>344</b>	---	---
Final Boiling Point	°C	ASTM D2887*	341	<b>370</b>	---	---

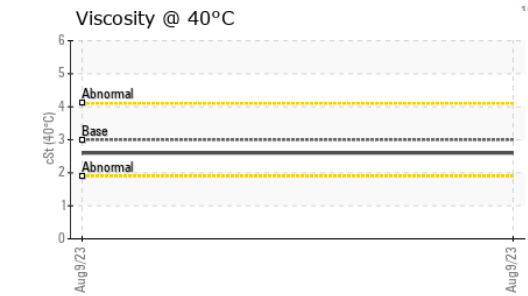
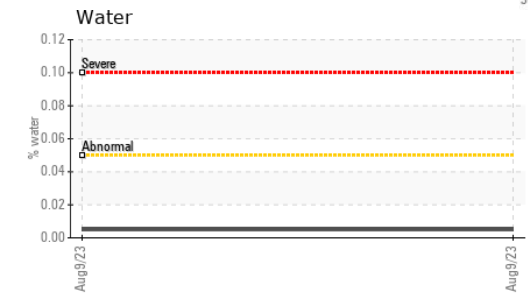
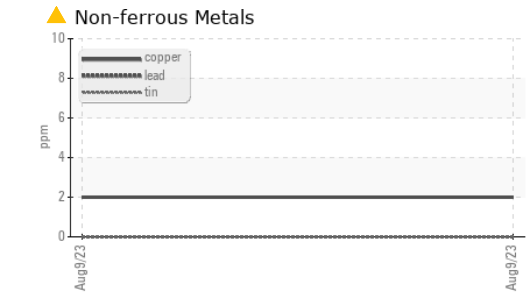
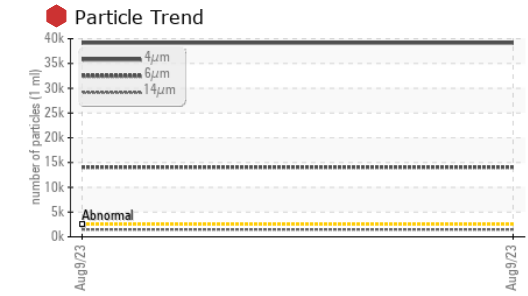
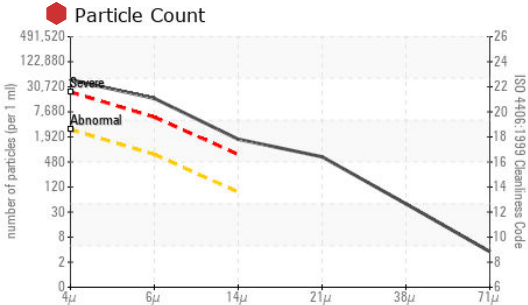
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>36</b>	---	---
Cetane Index		ASTM D4737*	<40.0	<b>47</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	---	---
Water	%	ASTM D6304*	<0.05	<b>0.005</b>	---	---
ppm Water	ppm	ASTM D6304*	<500	<b>57.5</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>39159</b>	---	---
Particles >6µm		ASTM D7647	>640	<b>14058</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>1478</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>561</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>42</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>3</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>22/21/18</b>	---	---



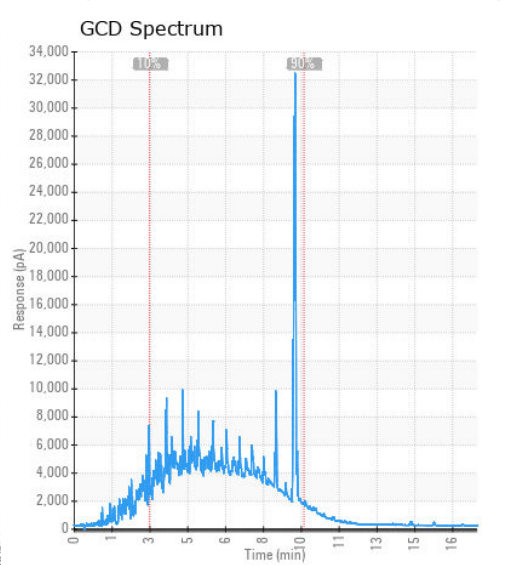
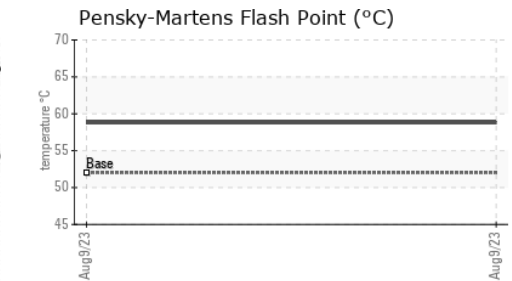
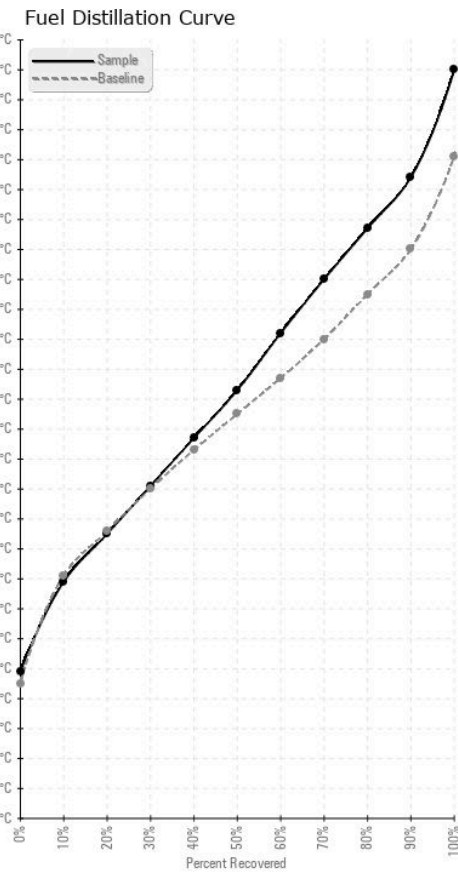
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0499774 **Received** : 10 Aug 2023  
**Lab Number** : 02575267 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 5620318 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, 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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