



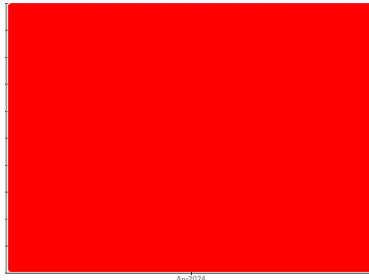
# PROBLEM SUMMARY

Sample Rating Trend

ISO

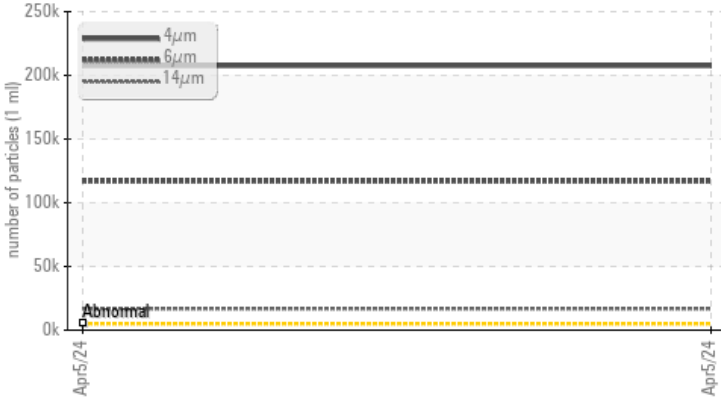


Area  
**Kruger - 888080**  
 Machine  
**PG083**  
 Component  
**Unknown Component**  
 Fluid  
**Shell PMO 220 (--- GAL)**

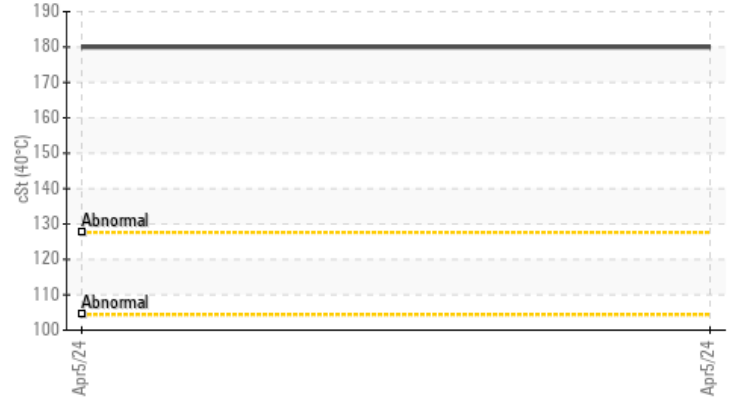


## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



### ▲ Viscosity @ 40°C



## RECOMMENDATION

The sample submitted is 64 times dirtier than the ISO dirt count recommendation of 19/16/14.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 207501	---	---
Particles >6µm	ASTM D7647	>640	▲ 116939	---	---
Particles >14µm	ASTM D7647	>160	▲ 16852	---	---
Particles >21µm	ASTM D7647	>40	▲ 4238	---	---
Particles >38µm	ASTM D7647	>10	▲ 172	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 25/24/21	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 180	---	---

Customer Id: CHECOB  
 Sample No.: E30001814  
 Lab Number: 02628585  
 Test Package: IND 2



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To discuss the diagnosis or test data:  
 Tatiana Sorkina +1 (800)263-3939  
[tsorkina@e360s.ca](mailto:tsorkina@e360s.ca)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

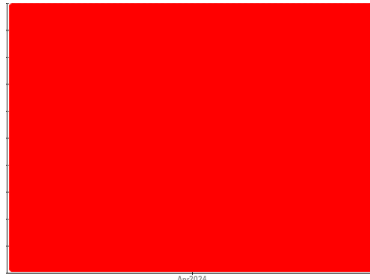
## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**Kruger - 888080**  
 Machine ID  
**PG083**  
 Component  
**Unknown Component**  
 Fluid  
**Shell PMO 220 (--- GAL)**

## DIAGNOSIS

**▲ Recommendation**  
 The sample submitted is 64 times dirtier than the ISO dirt count recommendation of 19/16/14.

**▲ Contamination**  
 Particles >14µm are severely high. Particles >21µm are severely high. Particles >38µm are severely high. Particles >6µm are severely high. Particles >4µm are severely high. Oil Cleanliness are severely high.

**▲ Fluid Condition**  
 Visc @ 40°C is abnormally low.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Machine ID	Client Info		Top Outside TK	---	---
Department	Client Info		Sales	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		04/10/2024	---	---
Sample Number	Client Info		E30001814	---	---
Sample Date	Client Info		05 Apr 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed		Client Info	N/A	---	---
Sample Status			SEVERE	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	4	---	---
Chromium	ppm	ASTM D5185(m)	0	---	---
Nickel	ppm	ASTM D5185(m)	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m)	0	---	---
Lead	ppm	ASTM D5185(m)	0	---	---
Copper	ppm	ASTM D5185(m)	0	---	---
Tin	ppm	ASTM D5185(m)	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

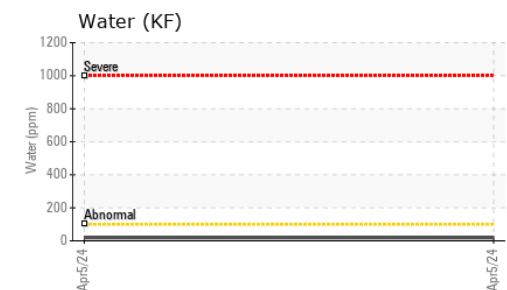
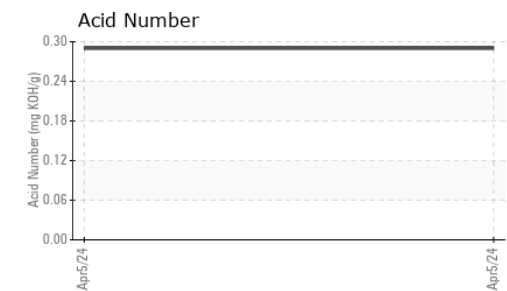
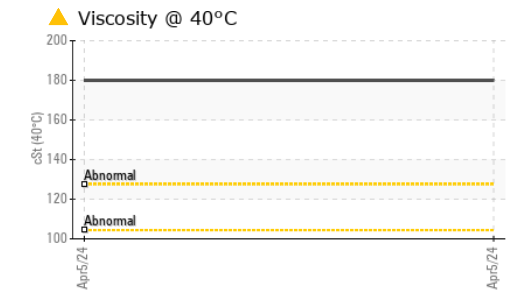
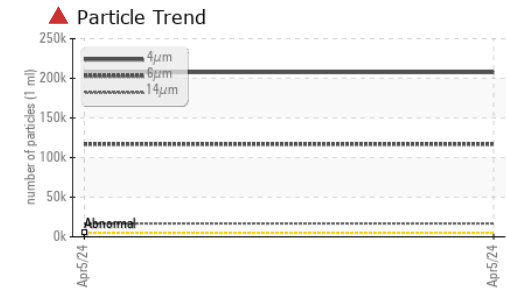
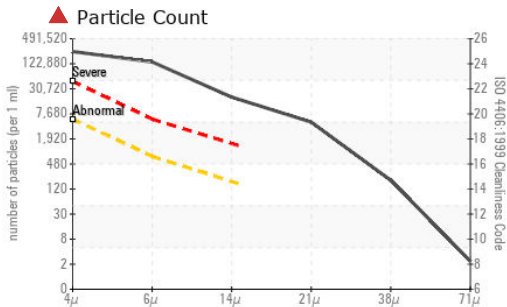
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	---	---
Barium	ppm	ASTM D5185(m)	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	<1	---	---
Calcium	ppm	ASTM D5185(m)	2	---	---
Phosphorus	ppm	ASTM D5185(m)	60	---	---
Zinc	ppm	ASTM D5185(m)	6	---	---
Sulfur	ppm	ASTM D5185(m)	7306	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	0	---	---
Sodium	ppm	ASTM D5185(m)	0	---	---
Potassium	ppm	ASTM D5185(m) >20	0	---	---
Water	%	ASTM D6304*	0.002	---	---
ppm Water	ppm	ASTM D6304*	19	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 207501	---	---
Particles >6µm	ASTM D7647	>640	▲ 116939	---	---
Particles >14µm	ASTM D7647	>160	▲ 16852	---	---
Particles >21µm	ASTM D7647	>40	▲ 4238	---	---
Particles >38µm	ASTM D7647	>10	▲ 172	---	---
Particles >71µm	ASTM D7647	>3	2	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 25/24/21	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.29	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	NEG	---	---	
Free Water	scalar	Visual*	NEG	---	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 180	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	16.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001814  
**Lab Number** : 02628585  
**Unique Number** : 5761717  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, TAN Man, VI )

**Environmental 360 Solutions Ltd.**  
 640 Victoria Street  
 Cobourg, ON  
 CA K9A 5H5  
 Contact: Tatiana Sorkina  
 tsorkina@e360s.ca  
 T: (800)263-3939  
 F: (905)373-4950

To discuss this sample report, contact Customer Service at 1-905-372-2251.  
 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.