

### **PROBLEM SUMMARY**

# PASTA [98420621] RAILCAR UNLOAD WEST

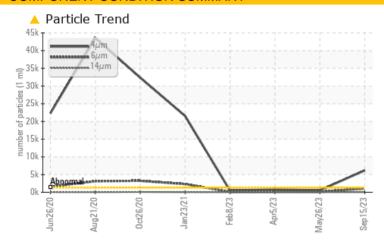
Component Blower

GEAR OIL ISO 320 (--- GAL)

# Sample Rating Trend



### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ATTENTION	NORMAL			
Particles >4µm	ASTM D7647	>1300	<b>△</b> 6189	543	808			
Particles >6µm	ASTM D7647	>320	<b>1062</b>	112	134			
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>20/17/13</b>	16/14/10	17/14/11			

Customer Id: KRASPRMO Sample No.: PCA0099586 Lab Number: 05968936 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

### RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.

### HISTORICAL DIAGNOSIS

26 May 2023 Diag: Don Baldridge

### VISCOSITY



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



### 05 Apr 2023 Diag: Don Baldridge

### NORMAL



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

# view report

### 08 Feb 2023 Diag: Don Baldridge

### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





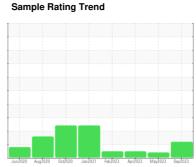
### **OIL ANALYSIS REPORT**

## PASTA [98420621] **RAILCAR UNLOAD WEST**

Component

**Blower** 

GEAR OIL ISO 320 (--- GAL)





### **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			lug2020 Oct2020 Jan20	21 Feb 2023 Apr 2023 May 2023	Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099586	PCA0099597	PCA0073969
Sample Date		Client Info		15 Sep 2023	26 May 2023	05 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	15	14	17
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	0	0
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	50	0	0	9
Calcium	ppm	ASTM D5185m	50	<1	0	0
Phosphorus	ppm	ASTM D5185m	350	520	492	551
Zinc	ppm	ASTM D5185m	100	0	0	5
Sulfur	ppm	ASTM D5185m	12500	2361	1620	1883
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	<1	3
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	1
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>6189</b>	543	808
Particles >6µm		ASTM D7647	>320	<b>1062</b>	112	134
Particles >14µm		ASTM D7647	>80	43	9	20
Particles >21µm		ASTM D7647	>20	10	2	6
Particles >38µm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u>^</u> 20/17/13	16/14/10	17/14/11
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 0.85

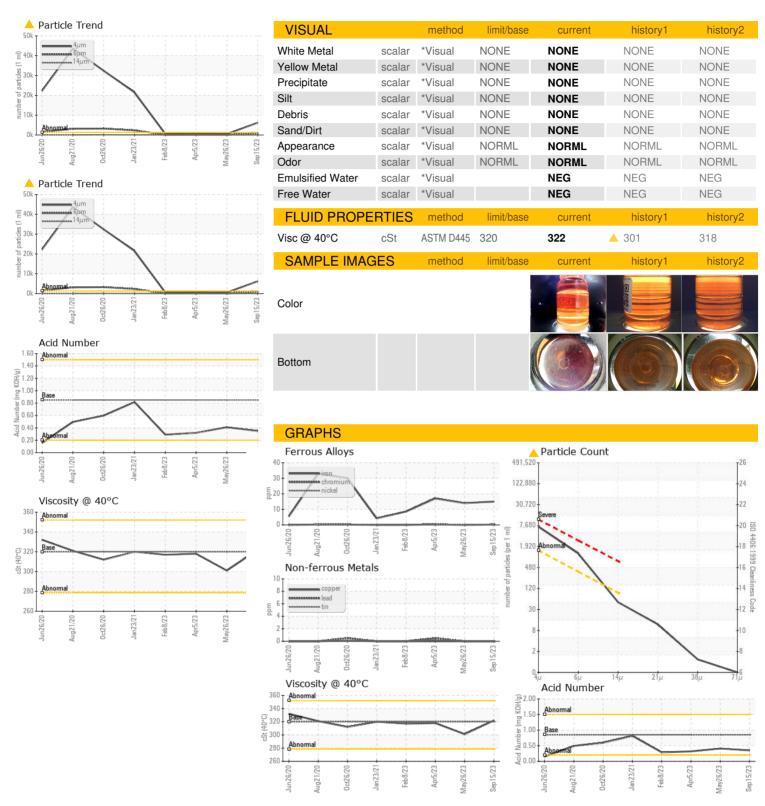
0.41

0.35

0.32



### **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0099586

: 05968936 : 10675487

Received Diagnosed Diagnostician

Test Package : IND 2 ( Additional Tests: PrtCount )

: 04 Oct 2023

: 06 Oct 2023

: Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

KraftHeinz - Springfield - Plant 8311 PCA

2035 E BENNETT SPRINGFIELD, MO

US 65804

Contact: Service Manager

T:

F: