

PROBLEM SUMMARY

PASTA [98542816]

Component **Blower**

GEAR OIL ISO 320 (--- GAL)

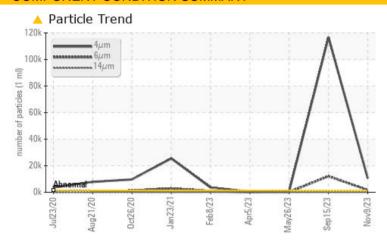
Jud2020 Aug2020 Oct2020 Jud2021 Feb2023 Apr2023 May2023 Sep2023 Nov2023

Sample Rating Trend



COMPONENT CONDITION SUMMARY

RAILCAR UNLOAD EAST



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		ABNOR	MAL ABNORMAL	NORMAL					
Particles >4µm	ASTM D7647 >1	1300 A 1052 3	△ 116810	948					
Particles >6μm	ASTM D7647 >3	320 A 1726	<u>▲</u> 12087	200					
Oil Cleanliness	ISO 4406 (c) >1	17/15/13 A 21/18	/13 \(24/21/14	17/15/12					

Customer Id: KRASPRMO Sample No.: PCA0111843 Lab Number: 06013989 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

15 Sep 2023 Diag: Don Baldridge

WEAR



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. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



26 May 2023 Diag: Don Baldridge

NORMAL



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



05 Apr 2023 Diag: Don Baldridge

VISCOSITY



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





OIL ANALYSIS REPORT

Sample Rating Trend



PASTA [98542816] Machine Id RAILCAR UNLOAD EAST

Component

Blower

GEAR OIL ISO 320 (--- GAL)

Fluid

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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.

		Jul2020 Aug	2020 Oct2020 Jan2021	Feb2023 Apr2023 May2023 Sep203	23 Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111843	PCA0099587	PCA0099596
Sample Date		Client Info		09 Nov 2023	15 Sep 2023	26 May 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	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	13	▲ 83	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	0	0
Barium	ppm	ASTM D5185m	15	4	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	50	0	<1	0
Calcium	ppm	ASTM D5185m	50	0	1	0
Phosphorus	ppm	ASTM D5185m	350	545	606	386
Zinc	ppm	ASTM D5185m	100	0	4	0
Sulfur	ppm	ASTM D5185m	12500	1491	1653	1601
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	4	3
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	10523	<u> </u>	948
Particles >6µm		ASTM D7647	>320	<u> </u>	<u>12087</u>	200
Particles >14μm		ASTM D7647	>80	63	<u> </u>	28
Particles >21µm		ASTM D7647	>20	12	<u>^</u> 29	7
Particles >38μm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u>^</u> 21/18/13	<u>4</u> 24/21/14	17/15/12
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.85



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0111843 : 06013989

400

350 St (40°C) 250

200

Unique Number : 10753133

Diagnostician

Test Package : IND 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

Diagnosed

Viscosity @ 40°C

* - 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:

Acid Number

mper (mg KOH/g)

0.00 gc

: 21 Nov 2023

: 24 Nov 2023

: Don Baldridge

F: