

PROBLEM SUMMARY

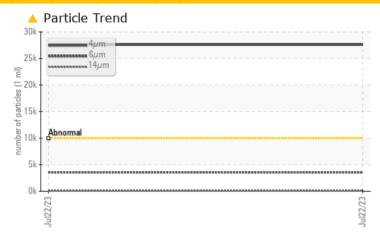
PROCESS CHEESE [98072715] Machine Id 36 - OUTER DRIVE COOLER

Component Gearbox

GEAR OIL ISO 220 (--- GAL)

Sample Rating Trend ISO Aug/823

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL						
Particles >4µm	ASTM D7647	>10000	<u> </u>						
Particles >6µm	ASTM D7647	>2500	3563						
Oil Cleanliness	ISO 4406 (c)	>20/18/16	A 22/19/14						

Customer Id: KRANEW Sample No.: PCA0094581 Lab Number: 05927200 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



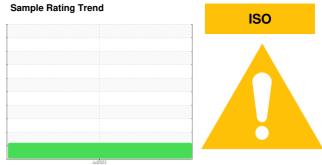
OIL ANALYSIS REPORT

PROCESS CHEESE [98072715] 36 - OUTER DRIVE COOLER

Component

Gearbox

GEAR OIL ISO 220 (--- GAL)



DIAGNOSIS

Recommendation

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.

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.

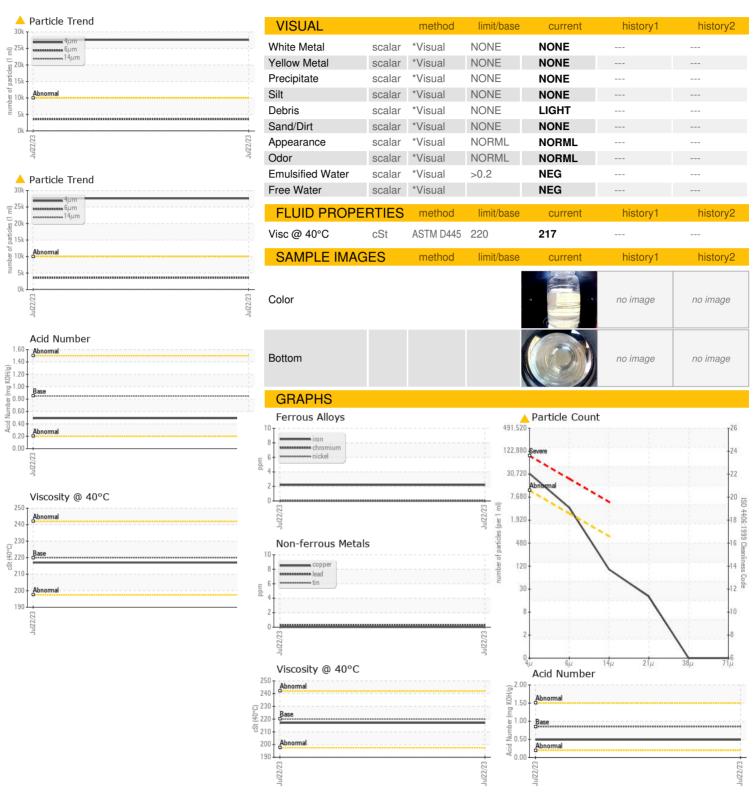
				Jul2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0094581		
Sample Date		Client Info		22 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2		
Chromium	ppm	ASTM D5185m	>15	0		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>100	<1		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>25	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	50	4		
Calcium	ppm	ASTM D5185m	50	15		
Phosphorus	ppm	ASTM D5185m	350	337		
Zinc	ppm	ASTM D5185m	100	3		
Sulfur	ppm	ASTM D5185m	12500	890		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>		
Particles >6µm		ASTM D7647	>2500	<u> </u>		
Particles >14μm		ASTM D7647	>640	87		
Particles >21µm		ASTM D7647	>160	17		
Particles >38μm		ASTM D7647	>40	0		
Particles >71μm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>22/19/14</u>		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	та КОЦ/а	ACTM DODAE	0.05	0.40		

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

0.49



OIL ANALYSIS REPORT





Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0094581 : 05927200

: 10607147

Received Diagnosed Diagnostician

: 17 Aug 2023 : 21 Aug 2023 : Jonathan Hester

Test Package : IND 2 (Additional Tests: PrtCount) 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 - New Ulm - Plant 8302

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