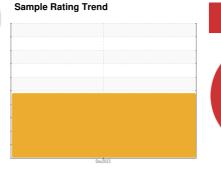


PROBLEM SUMMARY

BUILDING 51 - CEREAL PRODUCTS DRAG CHAIN CONVEYOR GEARBOX (S/N 51C9-GB)

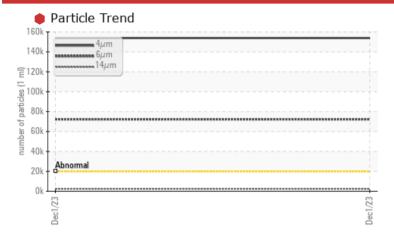
Component Gearbox

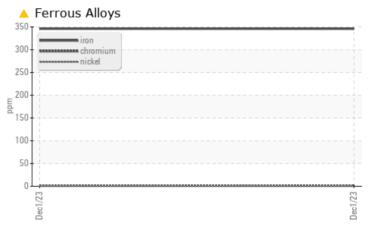
LUBRICATION ENG DUOLEC 1605 GEAR OIL 220 (20 LTR)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Iron	ppm	ASTM D5185(m)	>200	4 346					
Particles >4µm		ASTM D7647	>20000	153901					
Particles >6µm		ASTM D7647	>5000	72280					
Particles >14µm		ASTM D7647	>640	2425					
Particles >21µm		ASTM D7647	>160	△ 368					
Oil Cleanliness		ISO 4406 (c)	>21/19/16	2 4/23/18					

Customer Id: HIRWIN Sample No.: WC0865413 Lab Number: 02601323 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	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.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			

HISTORICAL DIAGNOSIS

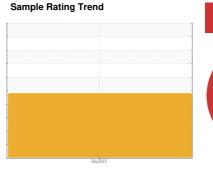


OIL ANALYSIS REPORT

BUILDING 51 - CEREAL PRODUCTS DRAG CHAIN CONVEYOR GEARBOX (S/N 51C9-GB)

Gearbox

LUBRICATION ENG DUOLEC 1605 GEAR OIL 220 (20 LTR)





DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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. Resample in 30-45 days to monitor this situation.

Wear

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

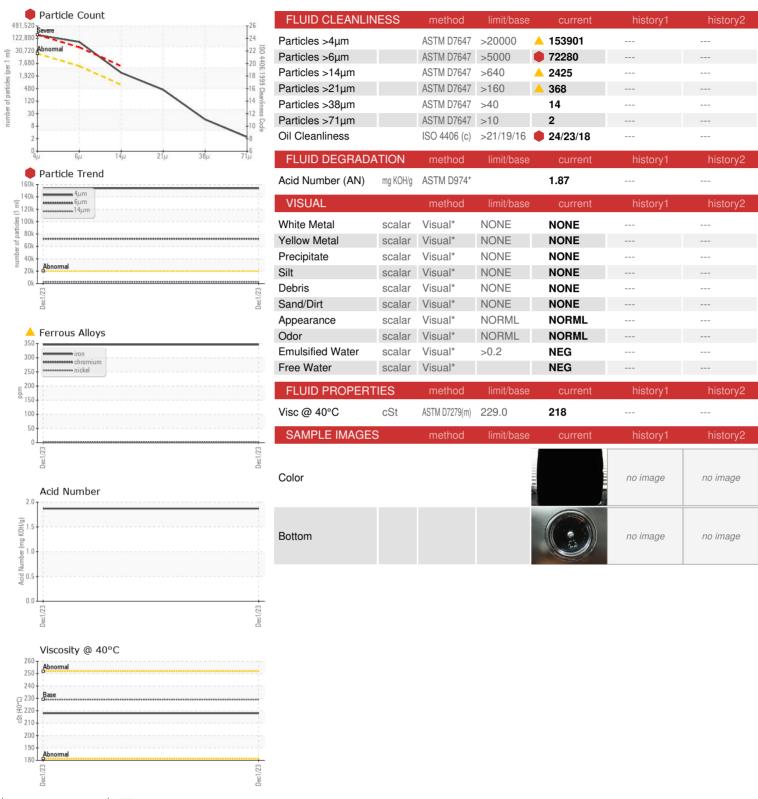
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

DIL 220 (20 L I R)			Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865413		
Sample Date		Client Info		01 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		8		
Iron	ppm	ASTM D5185(m)	>200	4 346		
Chromium	ppm	ASTM D5185(m)	>15	2		
Nickel	ppm	ASTM D5185(m)	>15	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>25	2		
Lead	ppm	ASTM D5185(m)	>100	0		
Copper	ppm	ASTM D5185(m)	>200	2		
Tin	ppm	ASTM D5185(m)	>25	0		
Antimony	ppm	ASTM D5185(m)	>5	<1		
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)		37		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		7		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		3		
Phosphorus	ppm	ASTM D5185(m)		976		
Zinc	ppm	ASTM D5185(m)		27		
Sulfur	ppm	ASTM D5185(m)		13835		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	<1		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: 5694408

: WC0865413 : 02601323

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 06 Dec 2023 : 07 Dec 2023

Diagnostician : Kevin Marson

HIRAM WALKER & SONS LTD. 2072 RIVERSIDE DRIVE EAST, BOX 2518

WINDSOR, ON CA N8Y 4S5 Contact: Matt Morand

Test Package : IND 2 (Additional Tests: PQ, TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131.

matt.morand@pernod-ricard.com T: (519)561-5359

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.

F: (519)971-5719