

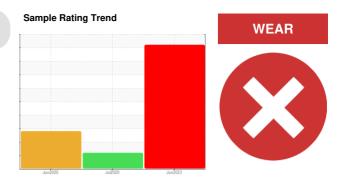
# **PROBLEM SUMMARY**

# [97339023]

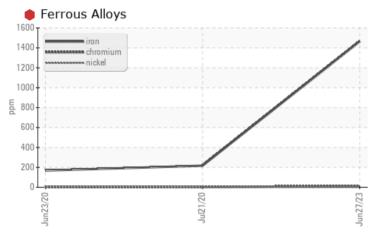
KR-GR-003425 - LOG LENGHT WEIGHT CONVEYOR (S/N STUFF C - 11519780)

Gearbox

MOBIL GLYGOYLE HE ISO 460 (--- GAL)









# RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	ABNORMAL	ABNORMAL				
Iron	ppm	ASTM D5185m	>200	<b>1465</b>	<u>^</u> 217	168				
Chromium	ppm	ASTM D5185m	>15	<b>14</b>	2	1				
Water	%	ASTM D6304	>0.2	<b>△</b> 0.217		<b>△</b> 0.198				
ppm Water	ppm	ASTM D6304	>2000	<u> </u>		<u> </u>				
Appearance	scalar	*Visual	NORML	▲ MILKY	NORML	▲ MILKY				

**Customer Id: KRAKIR** Sample No.: PCA0099346 Lab Number: 05895431 Test Package: IND 1



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

# Action Status Date Done By Description Inspect Wear Source --- ? We advise that you inspect for the source(s) of wear. Resample --- ? We recommend an early resample to monitor this condition.

# HISTORICAL DIAGNOSIS

## 21 Jul 2020 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. 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 condition of the oil is acceptable for the time in service.



# 23 Jun 2020 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity with next sample. All component wear rates are normal. Appearance is milky. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. Confirm oil type.





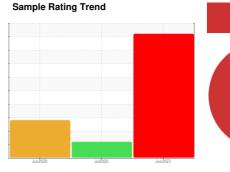
# **OIL ANALYSIS REPORT**

# [97339023]

# KR-GR-003425 - LOG LENGHT WEIGHT CONVEYOR (S/N STUFF C - 11519780)

Gearbox

MOBIL GLYGOYLE HE ISO 460 (--- GAL)





# **DIAGNOSIS**

## Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

# Wear

Gear wear is indicated.

## Contamination

Appearance is milky. There is a light concentration of water present in the oil.

### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

Sample Number         Client Info         PCA0099346         PCA0025811         PCA00212           Sample Date         Client Info         27 Jun 2023         21 Jul 2020         23 Jun 202           Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         SEVERE         ABNORMAL         ABNORMAL         ABNORMAL           WEAR METALS         method         Imitibase         current         history1         history1           Iron         ppm         ASTM 05185m         >200         1465         ▲ 217         168           Chromium         ppm         ASTM 05185m         >15         ▲ 14         ½         1           Chromium         ppm         ASTM 05185m         >15         ✓ 1         0         < 1			Jun2020 Jul2020		Jul2020 Jun20	Junž023		
Sample Date         Client Info         27 Jun 2023         21 Jul 2020         23 Jun 2020         20 0         1         68         2         2         1         4         2         1         1         68         2         1         4         2         1         1         1         1         6         2         1         1         1         6         1         1         1         1         1         1         1         1         1         1         1         2	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Date         Client Info         27 Jun 2023         21 Jul 2020         23 Jun 2020           Machine Age         hrs         Client Info         0         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Cilient Info         N/A         N/A         N/A         N/A           Sample Status         Client Info         N/A         N/A         N/A         N/A           WEAR METALS         method         Imitibase         current         Inistory1         history1           Iron         ppm         ASTM D5185m         >200         1465         217         168           Chromium         ppm         ASTM D5185m         >15         <1	Sample Number		Client Info		PCA0099346	PCA0025811	PCA0021282	
Machine Age         hrs         Client Info         0         0         0           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         Client Info         N/A         N/A         N/A         N/A           Sample Status         Client Info         N/A         N/A         N/A         N/A           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >200         1465         217         168           Chromium         ppm         ASTM D5185m         >20         1465         217         168           Chromium         ppm         ASTM D5185m         >15         1         0         <1         0           Chromium         ppm         ASTM D5185m         >15          1         0         <1           Nickel         ppm         ASTM D5185m         >0         0         0         <1         0           Silver         ppm         ASTM D5185m         >225         4         0         <1         <1           Lead         ppm         ASTM D5185m <th< td=""><td></td><td></td><td>Client Info</td><td></td><th>27 Jun 2023</th><td>21 Jul 2020</td><td>23 Jun 2020</td></th<>			Client Info		27 Jun 2023	21 Jul 2020	23 Jun 2020	
Oil Age         hrs         Client Info         N/A         N/A         N/A         N/A           Sample Status         SEVERE         ABNORMAL         ABNORMAL         ABNORMAL         ABNORMAL           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM 05185m         >200         1465         ≥217         168           Chromium         ppm         ASTM 05185m         >15         ~1         0         <1	•	hrs					0	
Oil Changed Sample Status         Client Info         N/A         N/A         N/A         N/A         N/A         SAVA         N/A         N/A         SAVA         SEVERE         ABNORMAL         ABNORMAL		hrs	Client Info		0	0	0	
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >200         1465         ▲ 217         168           Chromium         ppm         ASTM D5185m         >15         ▲ 14         2         1           Nickel         ppm         ASTM D5185m         0         <1	•				-	N/A	N/A	
Pron							ABNORMAL	
Chromium         ppm         ASTM D5185m         >15         ▲ 14         2         1           Nickel         ppm         ASTM D5185m         >15         <1         0         <1           Tittanium         ppm         ASTM D5185m         0         <1         0           Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >20         0         0         4           Lead         ppm         ASTM D5185m         >100         0         0         4           Copper         ppm         ASTM D5185m         >200         <1         <1         <1           Tin         ppm         ASTM D5185m         >25         <1         0         0           Antimony         ppm         ASTM D5185m         >5          0         0           Vanadium         ppm         ASTM D5185m         >5          0         0           Cadrium         ppm         ASTM D5185m         >0         <1         0         <1           Barium         ppm         ASTM D5185m         0         <1         0         <1	WEAR METAL	_S	method	limit/base	current	history1	history2	
Nickel	Iron	ppm	ASTM D5185m	>200	<b>1465</b>	<u>^</u> 217	168	
Titanium	Chromium	ppm	ASTM D5185m	>15	<u> </u>	2	1	
Silver	Nickel	ppm	ASTM D5185m	>15	<1	0	<1	
Silver	Titanium		ASTM D5185m		0	<1	0	
Aluminum	Silver		ASTM D5185m		0	0	0	
Lead         ppm         ASTM D5185m         >100         0         4           Copper         ppm         ASTM D5185m         >200         <1         <1         <1           Tin         ppm         ASTM D5185m         >25         <1         0         0           Antimony         ppm         ASTM D5185m         >5          0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         1           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         4         <1           Barium         ppm         ASTM D5185m         0         <1         0           Molybdenum         ppm         ASTM D5185m         15         69         1           Manganesium         ppm         ASTM D5185m         15         69         1           Magnesium         ppm         ASTM D5185m         21         3         2           Calcium         ppm         ASTM D5185m	Aluminum			>25			<1	
Copper         ppm         ASTM D5185m         >200         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>								
Tin								
Antimony         ppm         ASTM D5185m         >5          0         0           Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         <1         0         <1           ADDITIVES         method         limit/base         current         history1         history           Boron         ppm         ASTM D5185m         0         4         <1         0           Barium         ppm         ASTM D5185m         0         4         <1         0           Molybdenum         ppm         ASTM D5185m         0         <1         0         <1         0           Manganese         ppm         ASTM D5185m         6         2         1           1         6         9         1           <1         3         2           2         1           2         1              2         1 <td>• •</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>	• •							
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         <1         0         <1           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         4         <1           Barium         ppm         ASTM D5185m         0         <1         0           Molybdenum         ppm         ASTM D5185m         15         69         1           Manganese         ppm         ASTM D5185m         6         2         1           Magnesium         ppm         ASTM D5185m         <1         3         2           Calcium         ppm         ASTM D5185m         8         7         2         2           Phosphorus         ppm         ASTM D5185m         244         280         195         2           Zinc         ppm         ASTM D5185m         27         97         88         3         230           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>								
Cadmium         ppm         ASTM D5185m         <1         0         <1           ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         0         4         <1	•			70				
ADDITIVES         method         limit/base         current         history1         history           Boron         ppm         ASTM D5185m         0         4         <1								
Boron		ррш		limit/bass				
Barium         ppm         ASTM D5185m         0         <1         0           Molybdenum         ppm         ASTM D5185m         15         69         1           Manganese         ppm         ASTM D5185m         6         2         1           Magnesium         ppm         ASTM D5185m         <1		n.n.m		IIIIIIVDase				
Molybdenum         ppm         ASTM D5185m         15         69         1           Manganese         ppm         ASTM D5185m         6         2         1           Magnesium         ppm         ASTM D5185m         <1								
Manganese         ppm         ASTM D5185m         6         2         1           Magnesium         ppm         ASTM D5185m         <1					_			
Magnesium         ppm         ASTM D5185m         <1	•							
Calcium         ppm         ASTM D5185m         8         7         2           Phosphorus         ppm         ASTM D5185m         244         280         195           Zinc         ppm         ASTM D5185m         27         97         88           Sulfur         ppm         ASTM D5185m         3038         843         230           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 1980           VISUAL         method         limit/base         current         history1         history           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE	•				-			
Phosphorus         ppm         ASTM D5185m         244         280         195           Zinc         ppm         ASTM D5185m         27         97         88           Sulfur         ppm         ASTM D5185m         3038         843         230           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D5185m         >20         21         19         17           Water								
Zinc         ppm         ASTM D5185m         27         97         88           Sulfur         ppm         ASTM D5185m         3038         843         230           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 0.198           VISUAL         method         limit/base         current         history1         history           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE <td></td> <td></td> <td></td> <td></td> <th>_</th> <td></td> <td>_</td>					_		_	
Sulfur         ppm         ASTM D5185m         3038         843         230           CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 1980           VISUAL         method         limit/base         current         history1         history           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE         NONE           Silt         scalar         *V								
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 1980           VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE	-							
Silicon         ppm         ASTM D5185m         >50         7         5         5           Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         0.217          0.198           ppm Water         ppm         ASTM D6304         >2000         2170          1980           VISUAL         method         limit/base         current         history         history           White Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE					3038			
Sodium         ppm         ASTM D5185m         27         1         2           Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 1980           VISUAL         method         limit/base         current         history1         history1           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NONE         NONE         NONE         NONE		NTS				•	history2	
Potassium         ppm         ASTM D5185m         >20         21         19         17           Water         %         ASTM D6304         >0.2         ▲ 0.217          ▲ 0.198           ppm Water         ppm         ASTM D6304         >2000         ▲ 2170          ▲ 1980           VISUAL         method         limit/base         current         history         history           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE         NONE           Precipitate         scalar         *Visual         NONE         NONE         NONE         NONE           Silt         scalar         *Visual         NONE         NONE         NONE         NONE           Sand/Dirt         scalar         *Visual         NONE         NONE         NONE         NONE				>50				
Water		ppm			27	1	2	
ppm Water ppm ASTM D6304 >2000 ▲ 2170 ▲ 1980  VISUAL method limit/base current history1 history  White Metal scalar *Visual NONE NONE NONE NONE  Yellow Metal scalar *Visual NONE NONE NONE NONE  Precipitate scalar *Visual NONE NONE NONE NONE  Silt scalar *Visual NONE NONE NONE NONE  Debris scalar *Visual NONE NONE LIGHT NONE  Sand/Dirt scalar *Visual NONE NONE NONE NONE  NONE NONE NONE	Potassium					19	17	
VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE LIGHT NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE		%						
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE LIGHT NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE	ppm Water	ppm	ASTM D6304	>2000	<u>^</u> 2170		<u>1980</u>	
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONELIGHTNONESand/Dirtscalar*VisualNONENONENONENONE	VISUAL		method	limit/base	current	history1	history2	
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONELIGHTNONESand/Dirtscalar*VisualNONENONENONENONE	White Metal	scalar	*Visual			NONE	NONE	
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONELIGHTNONESand/Dirtscalar*VisualNONENONENONENONE	Yellow Metal	scalar	*Visual	NONE	NONE	NONE		
Debrisscalar*VisualNONENONELIGHTNONESand/Dirtscalar*VisualNONENONENONENONE	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Sand/Dirt scalar *Visual NONE NONE NONE NONE	Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE	
Appearance scalar *Visual NORML A MILKY NORML A MILKY	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	▲ MILKY	NORML	▲ MILKY	
Odor scalar *Visual NORML NORML NORML NORML	Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
Emulsified Water scalar *Visual >0.2 0.2% NEG 0.2%	Emulsified Water	scalar		>0.2	0.2%	NEG	0.2%	

Free Water

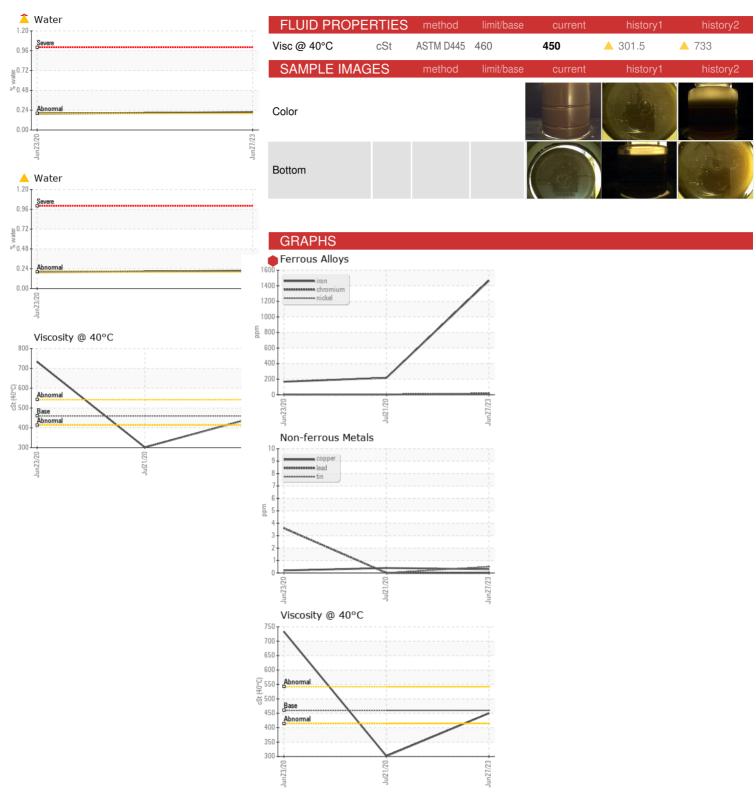
scalar \*Visual

NEG

Contact/Location: WALLACE WARD - KRAKIR



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10551241

: PCA0099346 : 05895431

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2023

Diagnosed : 13 Jul 2023 Diagnostician : Don Baldridge

Test Package : IND 1 (Additional Tests: KF)

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.

US 63501 Contact: WALLACE WARD wallace.ward@kraftheinzcompany.com

KraftHeinz - Kirksville - Plant 8333 PCA

2504 INDUSTRIAL DR

KIRKSVILLE, MO

T: (660)627-1031 F: (660)627-5887

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)