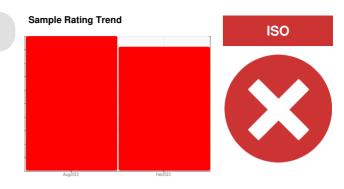


# **PROBLEM SUMMARY**

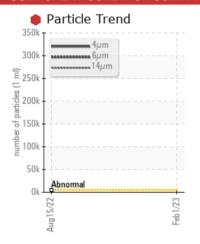
# BATCH SYSTEM 5 Machine Id Machine

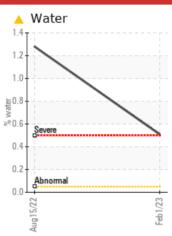
Hydraulic System

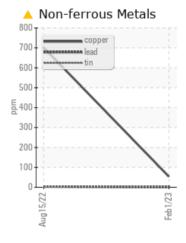
**NOT GIVEN (--- LTR)** 

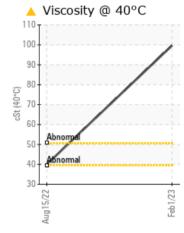


# COMPONENT CONDITION SUMMARY









# **RECOMMENDATION**

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. We recommend that you drain the oil and perform a filter service on this component if not already done. Else we recommend an early resample to monitor this condition. Please specify the brand and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS								
	ILOTINE	-30L13			05//505			
Sample Status				SEVERE	SEVERE			
Copper	ppm	ASTM D5185m	>20	<u></u> 54	<b>1</b> 701			
Water	%	ASTM D6304	>0.05	<b>0.509</b>	1.28			
ppm Water	ppm	ASTM D6304	>500	<b>5090</b>	12800			
Particles >4μm		ASTM D7647	>5000	302346				
Particles >6µm		ASTM D7647	>1300	<b>199729</b>				
Particles >14μm		ASTM D7647	>160	<b>3588</b>				
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>25/25/19</b>				
Appearance	scalar	*Visual	NORML	HAZY	▲ HAZY			
Emulsified Water	scalar	*Visual	>0.05	<u> </u>	0.2%			
Visc @ 40°C	cSt	ASTM D445		<b>99.6</b>	40.0			

Customer Id: KRAMASIOW Sample No.: USP247602 Lab Number: 05759466 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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 Fluid	SKIPPED	Feb 20 2023	?	We recommend that you drain the oil and perform a filter service on this component if not already done.				
Change Filter	SKIPPED	Feb 20 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Resample	SKIPPED	Feb 20 2023	?	We recommend an early resample to monitor this condition.				
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.				
Filter Fluid	SKIPPED	Feb 20 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Other Action (see Note)	DONE	Feb 20 2023	?	No recommended actions				

# HISTORICAL DIAGNOSIS

# 15 Aug 2022 Diag: Jonathan Hester

WEAR



We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The copper level is severe. Appearance is hazy. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid.





# **OIL ANALYSIS REPORT**

# BATCH SYSTEM 5 **BS5 HOMO CRANKCASE**

**Hydraulic System** 

**NOT GIVEN (--- LTR)** 

# Sample Rating Trend

# DIAGNOSIS

# Recommendation

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. We recommend that you drain the oil and perform a filter service on this component if not already done. Else we recommend an early resample to monitor this condition. Please specify the brand and viscosity of the oil on your next sample.

# Wear

The copper level has decreased but is still abnormal. All other component wear rates are normal.

# Contamination

There is a high amount of particulates present in the oil. Appearance is hazy. There is a moderate concentration of water present in the oil.

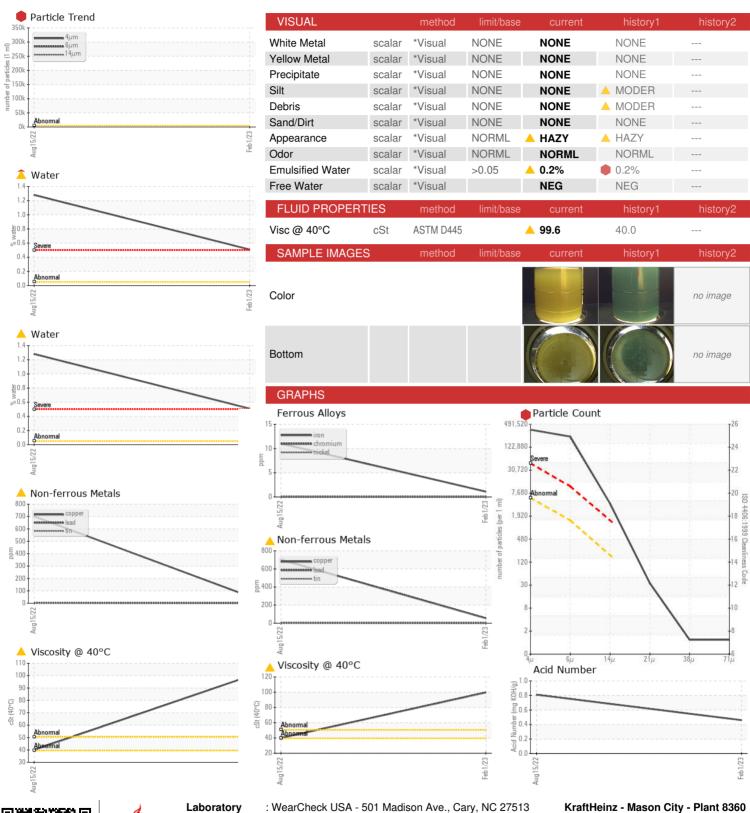
# Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM	4ATION	method	limit/base	Feb2023	historya	hiotory?
	MATION		IIIIIIVDase	current	history1	history2
Sample Number		Client Info		USP247602	USP232476	
Sample Date		Client Info		01 Feb 2023	15 Aug 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	11	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		<1	3	
Silver	ppm	ASTM D5185m		<1	3	
Aluminum	ppm	ASTM D5185m	>20	0	<1	
Lead	ppm	ASTM D5185m	>20	<1	3	
Copper	ppm	ASTM D5185m	>20	<u></u> 54	<b>1</b> 701	
Tin	ppm	ASTM D5185m	>20	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	7	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		5	139	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	1	
Calcium	ppm	ASTM D5185m		21	14	
Phosphorus	ppm	ASTM D5185m		368	617	
Zinc	ppm	ASTM D5185m		413	352	
Sulfur	ppm	ASTM D5185m		1241	1822	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	3	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Water	%	ASTM D6304	>0.05	<b>0.509</b>	1.28	
ppm Water	ppm	ASTM D6304	>500	<b>△</b> 5090	12800	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>302346</b>		
Particles >6μm		ASTM D7647	>1300	<b>199729</b>		
Particles >14µm		ASTM D7647	>160	<b>3588</b>		
Particles >21µm		ASTM D7647	>40	30		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>25/25/19</b>		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.81	



# **OIL ANALYSIS REPORT**





Certificate L2367

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

: USP247602 : 05759466

Received Diagnosed : 10324073 Diagnostician

: 06 Feb 2023 : 08 Feb 2023 : Doug Bogart KraftHeinz - Mason City - Plant 8360

1022 12TH ST MASON CITY, IA US 50401

Contact: Service Manager

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

: IND 2

\* - 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)

F: (641)421-2936

T: