

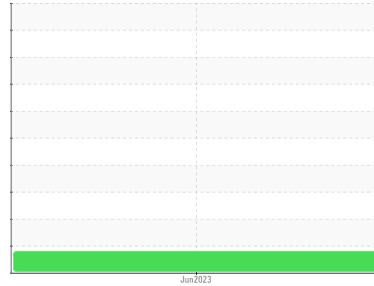


# PROBLEM SUMMARY

Sample Rating Trend

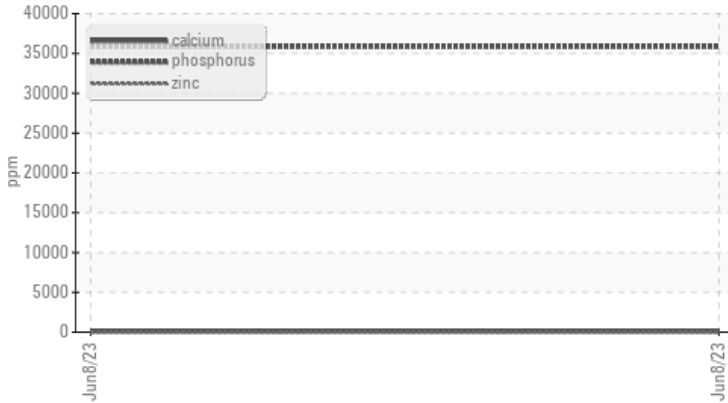
ADDITIVES

Machine Id  
**YHM157 HYD CART (S/N 059)**  
Component  
**Hydraulic System**  
Fluid  
**ESSO HYJET IV-A PLUS (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Additives



## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Phosphorus	ppm	ASTM D5185(m)	37	▲ 35866	---	---
Sulfur	ppm	ASTM D5185(m)	220	▲ 525	---	---

Customer Id: KELMOU  
Sample No.: WC0800083  
Lab Number: 02563329  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

ADDITIVES



Machine Id  
**YHM157 HYD CART (S/N 059)**

Component  
**Hydraulic System**

Fluid  
**ESSO HYJET IV-A PLUS (--- GAL)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>WC0800083</b>	---	---
Sample Date	Client Info	<b>08 Jun 2023</b>	---	---
Machine Age	hrs Client Info	<b>373</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Not Changed</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>20	<b>1</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Copper ppm ASTM D5185(m)	>20	<b>10</b>	---	---
Tin ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Antimony ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium ppm ASTM D5185(m)		<b>3</b>	---	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185(m)		<b>5</b>	---	---
Barium ppm ASTM D5185(m)		<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)		<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)		<b>9</b>	---	---
Calcium ppm ASTM D5185(m)	110	<b>120</b>	---	---
Phosphorus ppm ASTM D5185(m)	37	<b>▲ 35866</b>	---	---
Zinc ppm ASTM D5185(m)		<b>11</b>	---	---
Sulfur ppm ASTM D5185(m)	220	<b>▲ 525</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>15	<b>2</b>	---	---
Sodium ppm ASTM D5185(m)		<b>7</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>32</b>	---	---

## FLUID CLEANLINESS

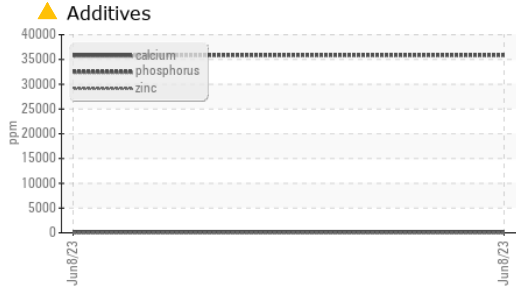
method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>5000	<b>923</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>291</b>	---	---
Particles >14µm ASTM D7647	>160	<b>59</b>	---	---
Particles >21µm ASTM D7647	>40	<b>27</b>	---	---
Particles >38µm ASTM D7647	>10	<b>5</b>	---	---
Particles >71µm ASTM D7647	>3	<b>3</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>17/15/13</b>	---	---

## FLUID DEGRADATION

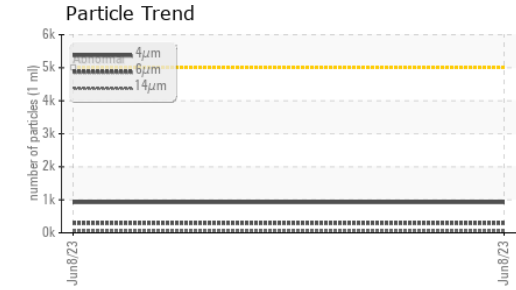
method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D974*	0.04	<b>0.18</b>	---	---



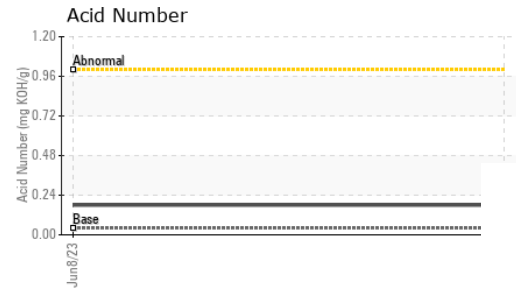
# OIL ANALYSIS REPORT



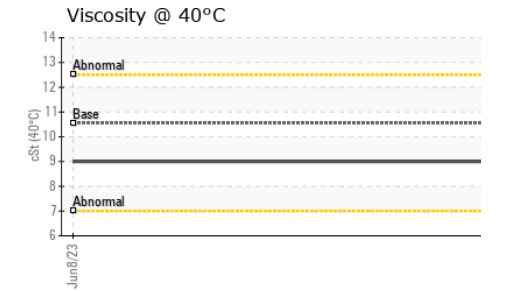
VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.750	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---



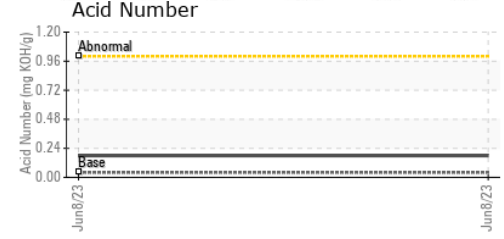
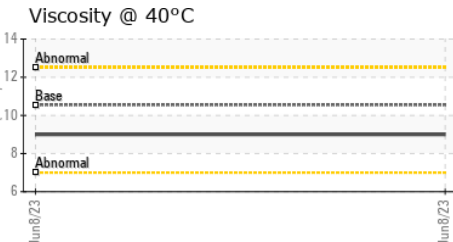
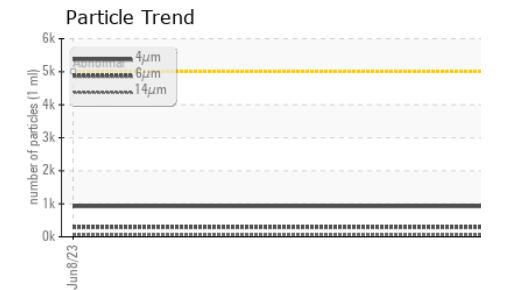
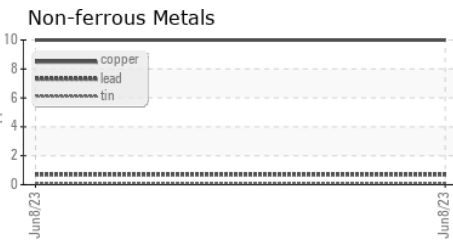
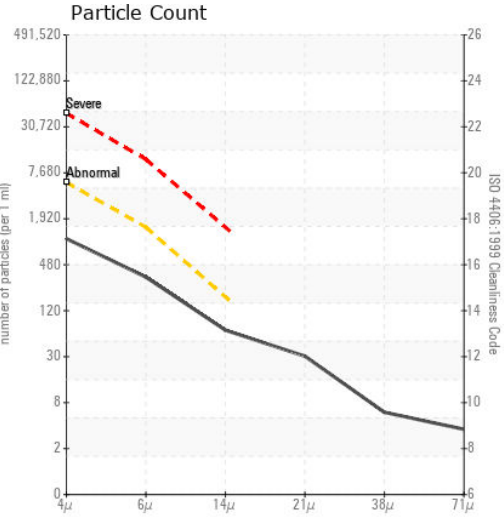
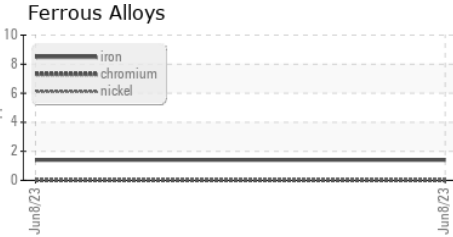
FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 40°C	cSt	ASTM D7279(m)	10.55	9	---	---



SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0800083 **Received** : 09 Jun 2023  
**Lab Number** : 02563329 **Diagnosed** : 14 Jun 2023  
**Unique Number** : 5592370 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 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.