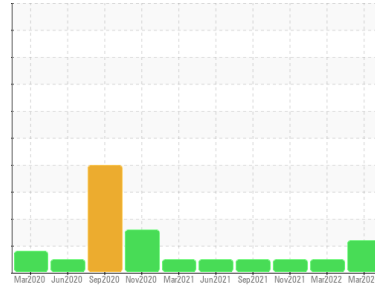


Area  
**MIX ROOM A [98793007]**  
 Machine Id  
**KR-GR-000316-SCREW - REWORK SCREW LOADER (S/N MIX A - 11513056)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG SYN GEAR ISO 220 (6 LTR)**



## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 98793007)

**Wear**  
 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0115890</b>	PCA0065871	PCA0046952
Sample Date	Client Info	<b>20 Mar 2024</b>	02 Mar 2022	30 Nov 2021
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	<b>6</b>	4	4
Chromium	ppm ASTM D5185m >15	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >25	<b>3</b>	0	<1
Lead	ppm ASTM D5185m >100	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185m >200	<b>&lt;1</b>	1	<1
Tin	ppm ASTM D5185m >25	<b>&lt;1</b>	0	0
Antimony	ppm ASTM D5185m >5	<b>---</b>	---	0
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>13</b>	3	0
Barium	ppm ASTM D5185m	<b>4</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>0</b>	1	<1
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>1</b>	0	0
Calcium	ppm ASTM D5185m	<b>8</b>	9	17
Phosphorus	ppm ASTM D5185m	<b>329</b>	294	298
Zinc	ppm ASTM D5185m	<b>27</b>	5	8
Sulfur	ppm ASTM D5185m	<b>18193</b>	8538	9658

## CONTAMINANTS

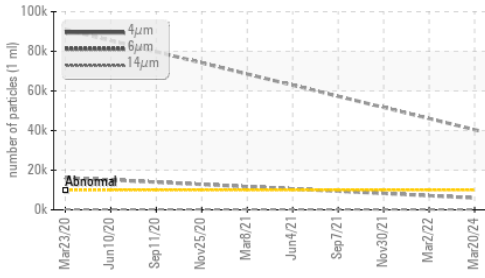
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>1</b>	2	1
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>8</b>	0	0

## FLUID CLEANLINESS

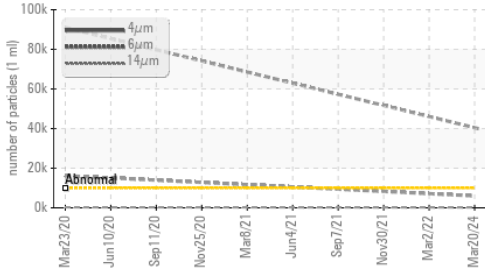
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 40446</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>▲ 6015</b>	---	---
Particles >14µm	ASTM D7647 >640	<b>187</b>	---	---
Particles >21µm	ASTM D7647 >160	<b>35</b>	---	---
Particles >38µm	ASTM D7647 >40	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	<b>▲ 23/20/15</b>	---	---

# OIL ANALYSIS REPORT

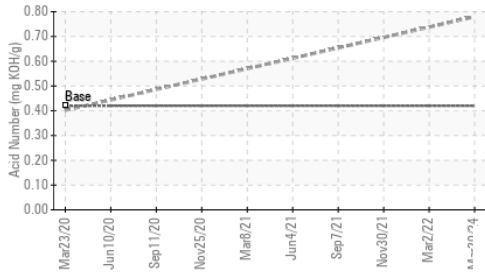
### ▲ Particle Trend



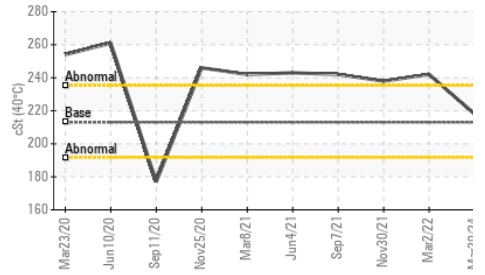
### ▲ Particle Trend



### Acid Number



### Viscosity @ 40°C





### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g ASTM D8045	0.42	<b>0.78</b>	---	---
VISUAL					
method	limit/base	current	history1	history2	
White Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual		<b>NEG</b>	NEG	NEG

### FLUID PROPERTIES

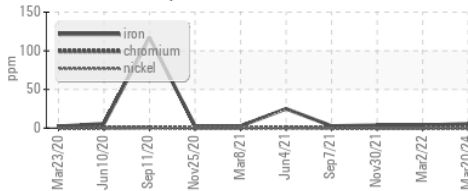
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	213	<b>218</b>	242	238

### SAMPLE IMAGES

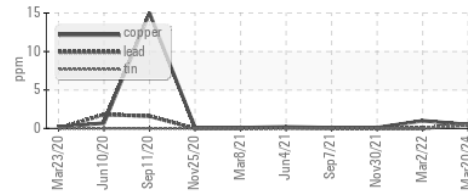
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

### GRAPHS

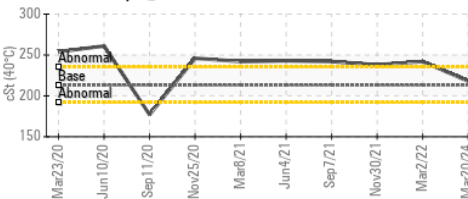
#### Ferrous Alloys



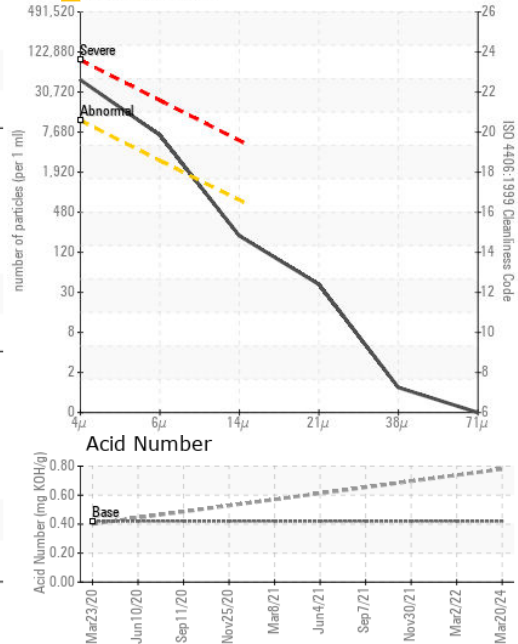
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### ▲ Particle Count



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : PCA0115890

**Lab Number** : 06133210

**Unique Number** : 10952675

**Test Package** : IND 2 ( Additional Tests: PrtCount )

**Received** : 29 Mar 2024

**Tested** : 01 Apr 2024

**Diagnosed** : 03 Apr 2024 - Jonathan Hester

**KraftHeinz - Kirksville - Plant 8333 PCA**

2504 INDUSTRIAL DR

KIRKSVILLE, MO

US 63501

Contact: WALLACE WARD

wallace.ward@kraftheinzcompany.com

T: (660)627-1031

F: (660)627-5887

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)