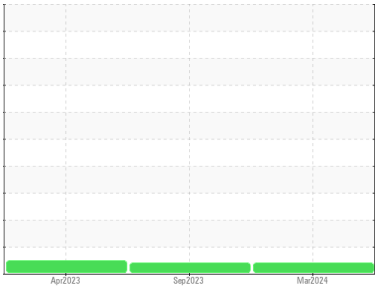
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Area
PHASE 1 HTS
Machine Id
HT 06
Component
Agitator Gearbox
Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris 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		**PCA0119923**	USP05966361	USP234433
Sample Date		Client Info		**20 Mar 2024**	21 Sep 2023	04 Apr 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**ABNORMAL**	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**6**	4	15
Chromium	ppm	ASTM D5185m	>10	**<1**	0	<1
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**1**	0	4
Lead	ppm	ASTM D5185m	>100	**1**	0	<1
Copper	ppm	ASTM D5185m	>50	**5**	3	13
Tin	ppm	ASTM D5185m	>10	**1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**15**	12	61
Barium	ppm	ASTM D5185m		**<1**	2	0
Molybdenum	ppm	ASTM D5185m		**3**	3	0
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m		**<1**	<1	2
Calcium	ppm	ASTM D5185m		**5**	1	8
Phosphorus	ppm	ASTM D5185m		**656**	623	1284
Zinc	ppm	ASTM D5185m		**14**	15	37
Sulfur	ppm	ASTM D5185m		**6529**	6735	23078

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**19**	26	6
Sodium	ppm	ASTM D5185m		**0**	0	2
Potassium	ppm	ASTM D5185m	>20	**1**	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	5832	6213
Particles >6µm		ASTM D7647	>5000	**---**	1008	397
Particles >14µm		ASTM D7647	>640	**---**	59	10
Particles >21µm		ASTM D7647	>160	**---**	16	2
Particles >38µm		ASTM D7647	>40	**---**	1	0
Particles >71µm		ASTM D7647	>10	**---**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	20/17/13	20/16/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.42	**1.45**	1.11	3.69

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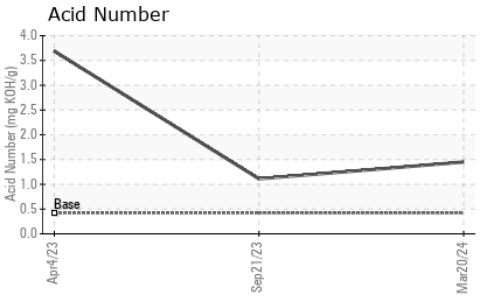
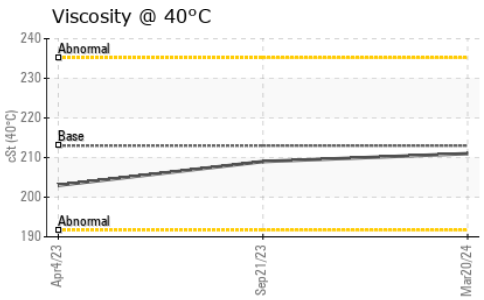


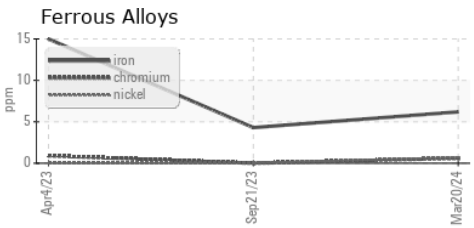


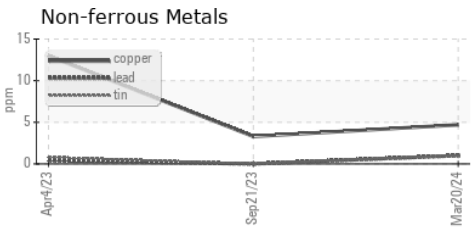
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

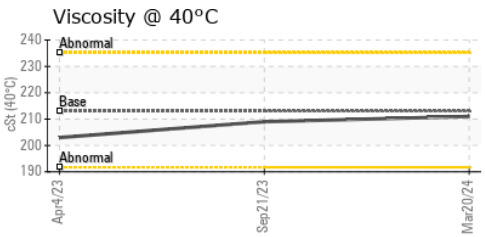
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213	**211**	209	203

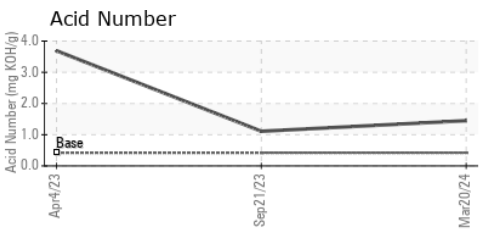
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119923
Lab Number : 06129391
Unique Number : 10943542
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 26 Mar 2024
Tested : 29 Mar 2024
Diagnosed : 29 Mar 2024 - Jonathan Hester

KraftHeinz - Mason City - Plant 8360
1022 12TH ST
MASON CITY, IA
US 50401
Contact: Service Manager
T:
F: (641)421-2936

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)