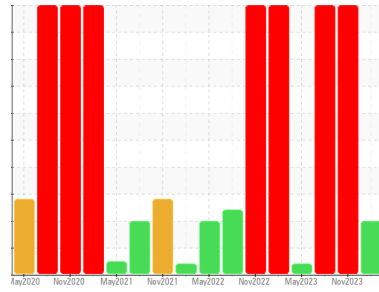


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

MIX ROOM A [98923564]

Machine Id

KR-GR-003249 - PUMP GB - REWORK MEAT PUMP (S/N MIX A - 11555556)

Component

Gearbox

Fluid

PETRO CANADA PURITY FG SYN GEAR ISO 220 (2 LTR)

DIAGNOSIS

Recommendation

The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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			PCA0055960	PCA0106505	PCA0102515
Sample Date	Client Info			24 May 2024	05 Nov 2023	10 Aug 2023
Machine Age	yrs	Client Info		2	0	0
Oil Age	yrs	Client Info		2	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	21	▲ 1617	▲ 490
Chromium	ppm	ASTM D5185m	>15	<1	▲ 19	5
Nickel	ppm	ASTM D5185m	>15	<1	7	1
Titanium	ppm	ASTM D5185m		<1	3	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	7	▲ 147	▲ 36
Lead	ppm	ASTM D5185m	>100	<1	3	0
Copper	ppm	ASTM D5185m	>200	<1	5	<1
Tin	ppm	ASTM D5185m	>25	<1	5	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	38	6
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		3	4	1
Manganese	ppm	ASTM D5185m		<1	15	4
Magnesium	ppm	ASTM D5185m		1	16	2
Calcium	ppm	ASTM D5185m		2	933	100
Phosphorus	ppm	ASTM D5185m		449	448	408
Zinc	ppm	ASTM D5185m		82	999	150
Sulfur	ppm	ASTM D5185m		1342	1302	983

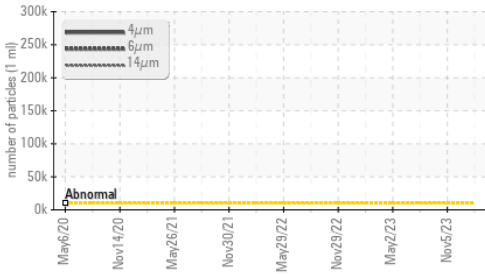
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	32	9
Sodium	ppm	ASTM D5185m		1	541	102
Potassium	ppm	ASTM D5185m	>20	1	135	21

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 295490	---	---
Particles >6µm		ASTM D7647	>2500	▲ 106047	---	---
Particles >14µm		ASTM D7647	>640	▲ 2067	---	---
Particles >21µm		ASTM D7647	>160	● 270	---	---
Particles >38µm		ASTM D7647	>40	1	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ 25/24/18	---	---

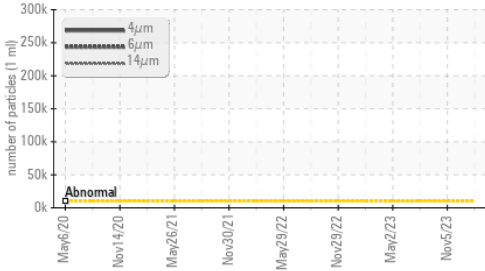
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.42	0.52	▲ 3.188	0.48

OIL ANALYSIS REPORT

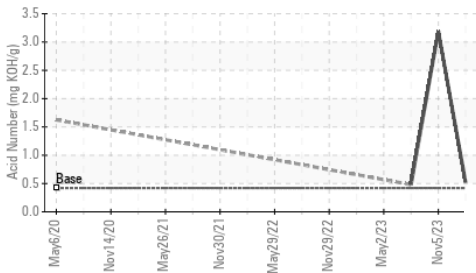
▲ Particle Trend



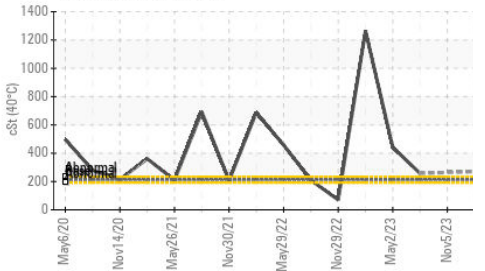
▲ Particle Trend



Acid Number



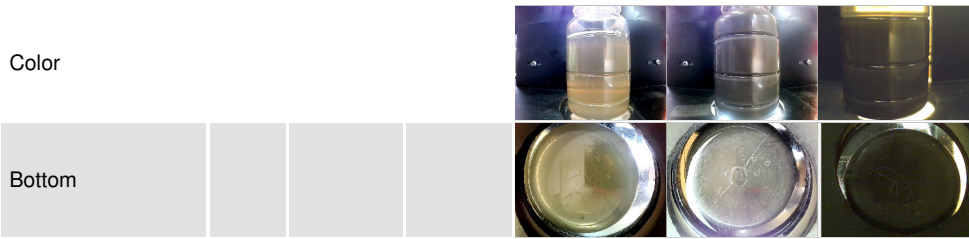
Viscosity @ 40°C



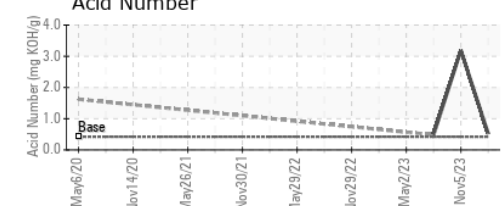
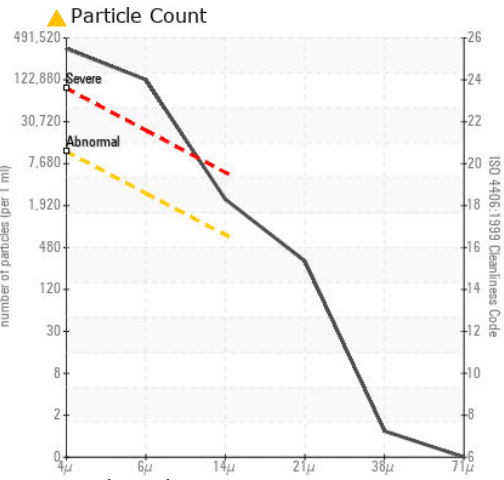
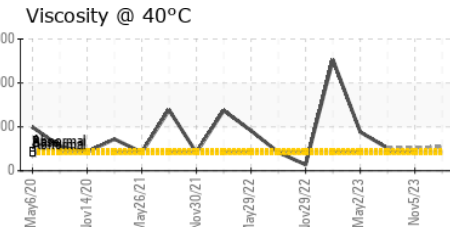
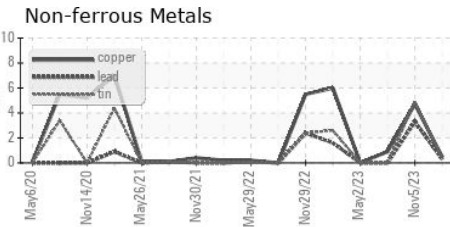
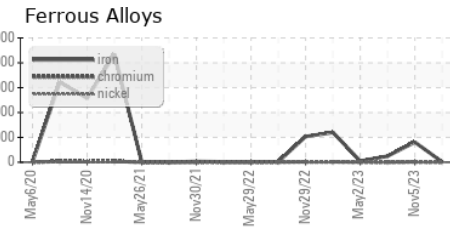
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 213	270	---	257

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0055960
Lab Number : 06195362
Unique Number : 11057485
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Angela Borella

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501

Contact: WALLACE WARD
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 T: (660)627-1031
 F: (660)627-5887