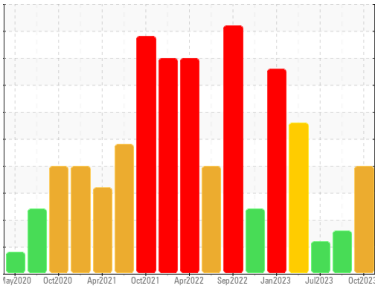
OIL DIAGNOSTICS

PROBLEM SUMMARY

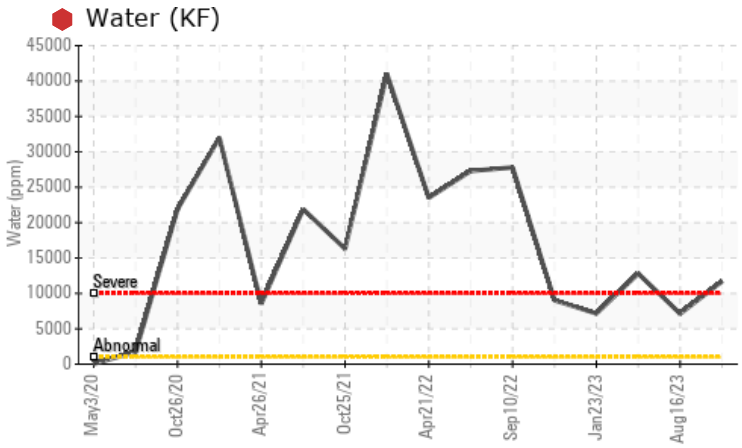
Sample Rating Trend



WATER

Area
[98557984]
Machine Id
KR-GR-000325-NORTH - 15000 LB MIXER (S/N MIX D - 11513074)
Component
Gear Reducer
Fluid
PETRO CANADA 220 (48 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ATTENTION
Water	%	ASTM D6304	>0.1	**1.17**	0.713	---
ppm Water	ppm	ASTM D6304	>1000	**11700**	7130	---
Appearance	scalar	*Visual	NORML	**MILKY**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	0.2%	NEG

Customer Id: KRAKIR
Sample No.: PCA0108232
Lab Number: 05986436
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

16 Aug 2023 Diag: Jonathan Hester

WATER

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

view report

31 Jul 2023 Diag: Jonathan Hester

VISCOSITY

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

23 Apr 2023 Diag: Don Baldridge

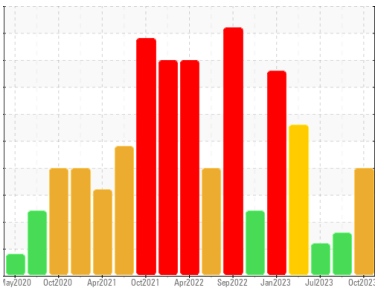
WATER

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. Free water present. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
[98557984]
Machine Id
KR-GR-000325-NORTH - 15000 LB MIXER (S/N MIX D - 11513074)
Component
Gear Reducer
Fluid
PETRO CANADA 220 (48 LTR)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Appearance is milky. There is a high concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0108232**	PCA0101928	PCA0102535
Sample Date		Client Info		**20 Oct 2023**	16 Aug 2023	31 Jul 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	ABNORMAL	ATTENTION

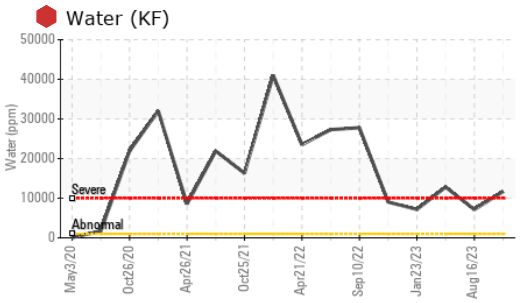
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**62**	46	<1
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	1
Nickel	ppm	ASTM D5185m	>10	**2**	0	1
Titanium	ppm	ASTM D5185m		**0**	0	1
Silver	ppm	ASTM D5185m		**<1**	0	3
Aluminum	ppm	ASTM D5185m	>25	**1**	0	0
Lead	ppm	ASTM D5185m	>100	**1**	0	8
Copper	ppm	ASTM D5185m	>50	**0**	0	2
Tin	ppm	ASTM D5185m	>10	**2**	<1	3
Vanadium	ppm	ASTM D5185m		**<1**	0	2
Cadmium	ppm	ASTM D5185m		**0**	0	<1

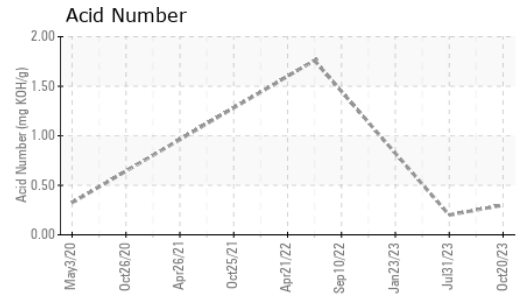
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	0	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**8**	0	<1
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**5**	2	▲ 19
Calcium	ppm	ASTM D5185m		**13**	6	0
Phosphorus	ppm	ASTM D5185m		**426**	431	226
Zinc	ppm	ASTM D5185m		**2**	0	0
Sulfur	ppm	ASTM D5185m		**2011**	1359	▲ 463

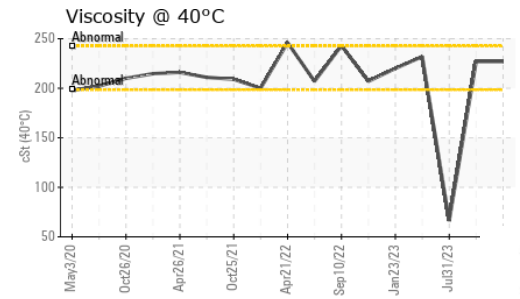
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**4**	3	3
Sodium	ppm	ASTM D5185m		**4**	2	45
Potassium	ppm	ASTM D5185m	>20	**5**	1	107
Water	%	ASTM D6304	>0.1	⬢ **1.17**	▲ 0.713	---
ppm Water	ppm	ASTM D6304	>1000	⬢ **11700**	▲ 7130	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.30**	---	0.20

OIL ANALYSIS REPORT

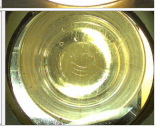




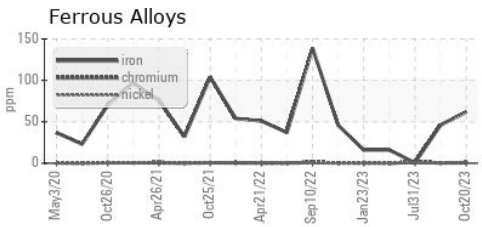


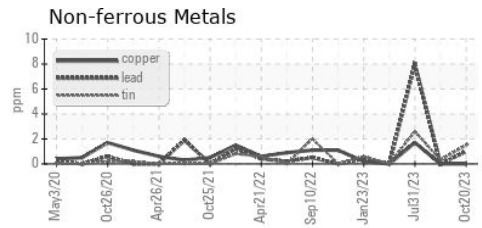
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **MILKY**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	⬢ **0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

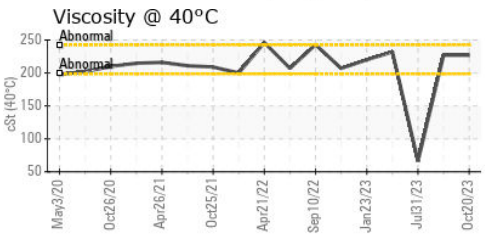
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**227**	227	▲ 66.3

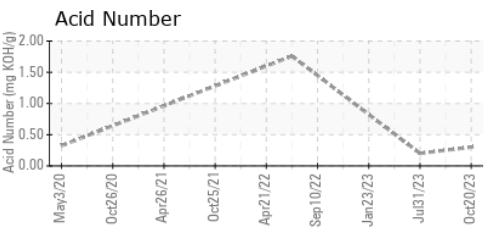
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108232 **Received** : 23 Oct 2023
Lab Number : 05986436 **Diagnosed** : 25 Oct 2023
Unique Number : 10709098 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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