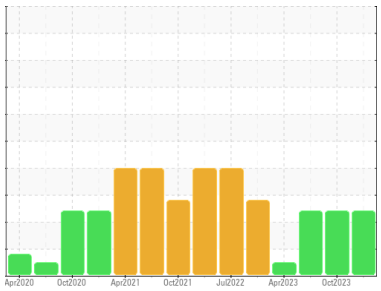
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
MIX ROOM C [98749735]
Machine Id
KR-GR-001553-SOUTH - 15000 MIXER (S/N MIX C - 11513064)
Component
Gearbox
Fluid
PETRO CANADA 220 (50 QTS)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. (Customer Sample Comment: 98749735)

Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. There is a moderate 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		**PCA0108445**	PCA0108240	PCA0103226
Sample Date		Client Info		**22 Jan 2024**	22 Oct 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				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**26**	3	<1
Chromium	ppm	ASTM D5185m	>15	**0**	<1	1
Nickel	ppm	ASTM D5185m	>15	**0**	0	1
Titanium	ppm	ASTM D5185m		**0**	0	1
Silver	ppm	ASTM D5185m		**0**	0	3
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	0
Lead	ppm	ASTM D5185m	>100	**0**	0	8
Copper	ppm	ASTM D5185m	>200	**0**	<1	2
Tin	ppm	ASTM D5185m	>25	**0**	<1	2
Vanadium	ppm	ASTM D5185m		**0**	0	2
Cadmium	ppm	ASTM D5185m		**0**	0	<1

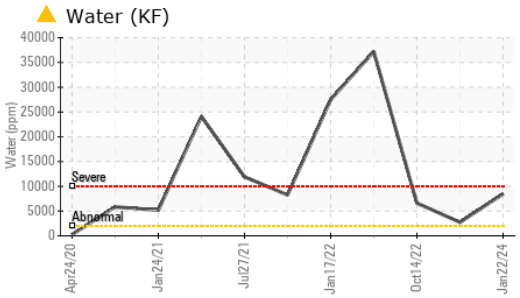
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	<1	2
Barium	ppm	ASTM D5185m		**0**	19	0
Molybdenum	ppm	ASTM D5185m		**36**	2	1
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	0	20
Calcium	ppm	ASTM D5185m		**10**	2	0
Phosphorus	ppm	ASTM D5185m		**425**	429	224
Zinc	ppm	ASTM D5185m		**9**	24	0
Sulfur	ppm	ASTM D5185m		**2736**	1200	925

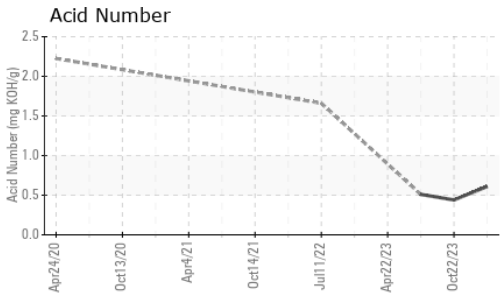
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**3**	2	3
Sodium	ppm	ASTM D5185m		**2**	1	43
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	100
Water	%	ASTM D6304	>0.2	▲ **0.848**	---	▲ 0.273
ppm Water	ppm	ASTM D6304	>2000	▲ **8480**	---	▲ 2730

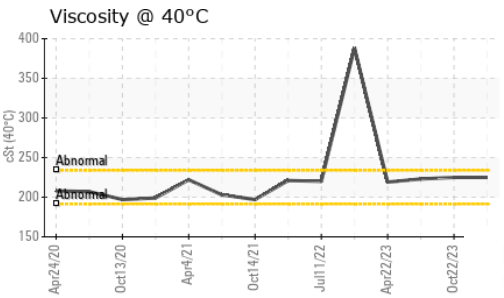
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	▲ 74595	---
Particles >6µm		ASTM D7647	>2500	**---**	▲ 25315	---
Particles >14µm		ASTM D7647	>640	**---**	▲ 2081	---
Particles >21µm		ASTM D7647	>160	**---**	▲ 534	---
Particles >38µm		ASTM D7647	>40	**---**	23	---
Particles >71µm		ASTM D7647	>10	**---**	4	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	**---**	▲ 23/22/18	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.61**	0.44	0.51

OIL ANALYSIS REPORT

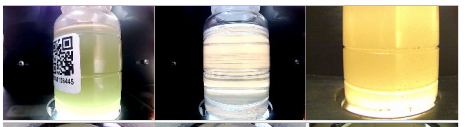




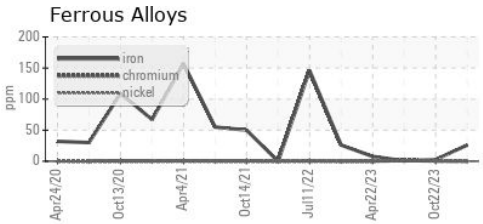


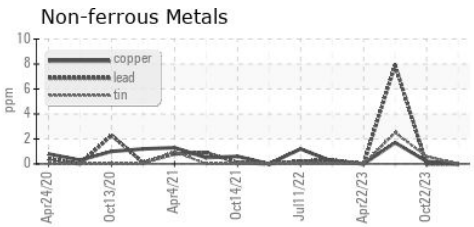
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE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

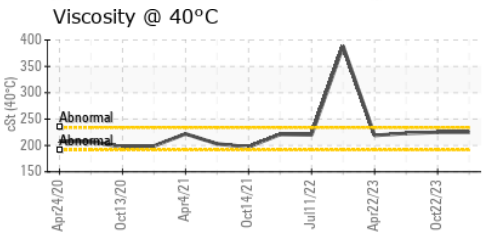
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**225**	225	223

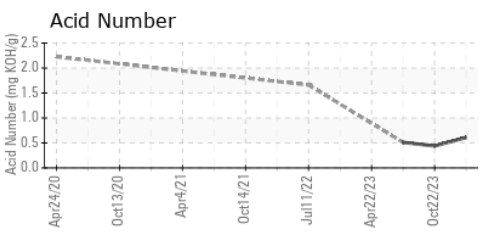
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108445 **Recieved** : 25 Jan 2024
Lab Number : 06070454 **Diagnosed** : 28 Jan 2024
Unique Number : 10847131 **Diagnostician** : Don Baldridge
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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