

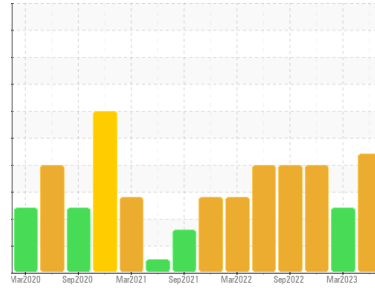
PROBLEM SUMMARY

Sample Rating Trend

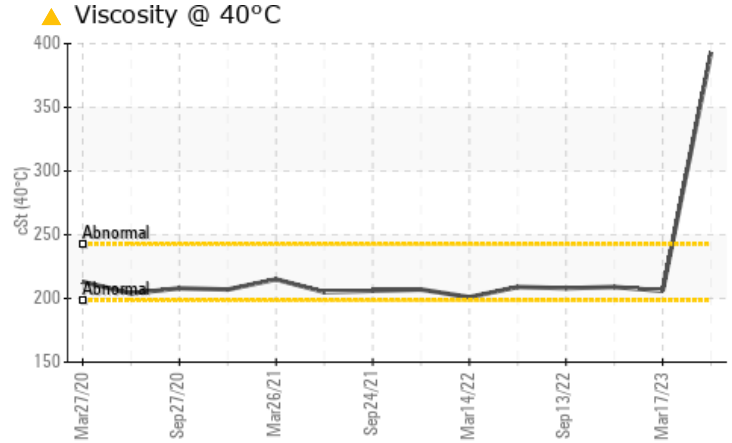
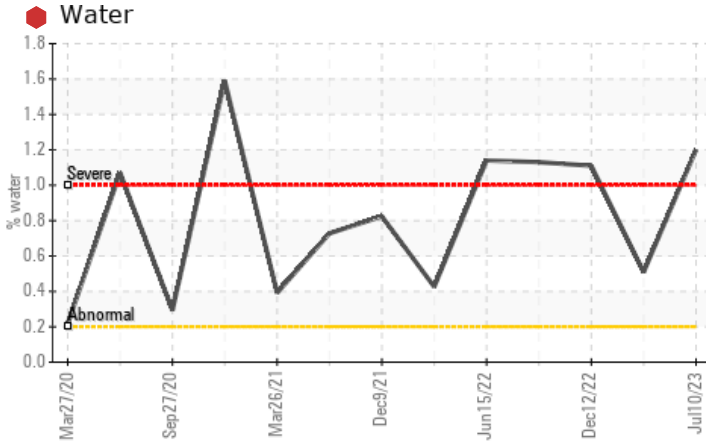
WATER



Area
[98272424]
 Machine Id
KR-GR-001552-SOUTH - 15000 LB MIXER (S/N MIX A - 11513053)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (13 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Water	%	ASTM D6304	>0.2	🔴 1.20	🟡 0.509	🔴 1.11
ppm Water	ppm	ASTM D6304	>2000	🔴 12000	🟡 5090	🔴 11100
Appearance	scalar	*Visual	NORML	🟡 HAZY	NORML	🟡 HAZY
Emulsified Water	scalar	*Visual	>0.2	🔴 0.2%	0.2%	🔴 0.2%
Visc @ 40°C	cSt	ASTM D445		🟡 393	206	209

Customer Id: KRAKIR
 Sample No.: PCA0099341
 Lab Number: 05895429
 Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
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

17 Mar 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The condition of the oil is acceptable for the time in service.

view report



12 Dec 2022 Diag: Don Baldrige

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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is hazy. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

view report



13 Sep 2022 Diag: Jonathan Hester

WATER



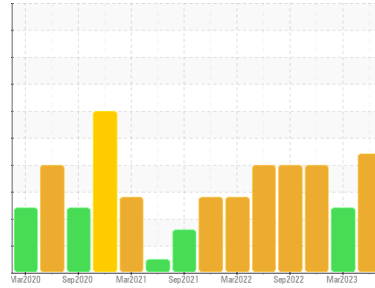
We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[98272424]
 Machine Id
KR-GR-001552-SOUTH - 15000 LB MIXER (S/N MIX A - 11513053)
 Component
Gearbox
 Fluid
PETRO CANADA 220 (13 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0099341	PCA0094750	PCA0083796
Sample Date	Client Info		10 Jul 2023	17 Mar 2023	12 Dec 2022
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	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	82	126	96
Chromium	ppm	ASTM D5185m >15	<1	<1	<1
Nickel	ppm	ASTM D5185m >15	0	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	3	<1	2
Lead	ppm	ASTM D5185m >100	0	0	<1
Copper	ppm	ASTM D5185m >200	<1	4	1
Tin	ppm	ASTM D5185m >25	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	17	16	14
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	52	109	99
Manganese	ppm	ASTM D5185m	1	1	1
Magnesium	ppm	ASTM D5185m	0	0	3
Calcium	ppm	ASTM D5185m	42	43	38
Phosphorus	ppm	ASTM D5185m	668	678	600
Zinc	ppm	ASTM D5185m	24	65	61
Sulfur	ppm	ASTM D5185m	2758	9743	11424

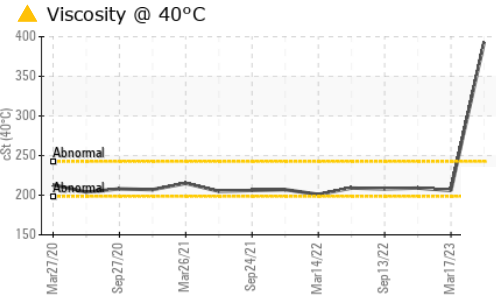
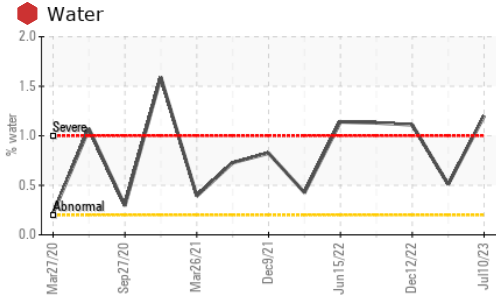
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	5	7	5
Sodium	ppm	ASTM D5185m	10	7	8
Potassium	ppm	ASTM D5185m >20	<1	1	3
Water	%	ASTM D6304 >0.2	1.20	0.509	1.11
ppm Water	ppm	ASTM D6304 >2000	12000	5090	11100

VISUAL

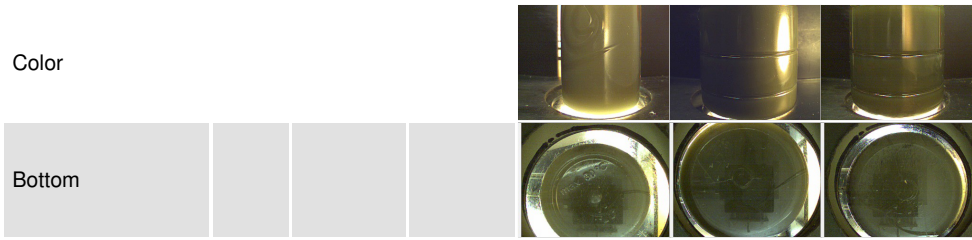
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	HEAVY	MODER
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE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

OIL ANALYSIS REPORT

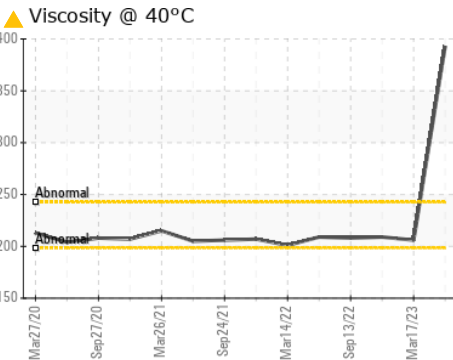
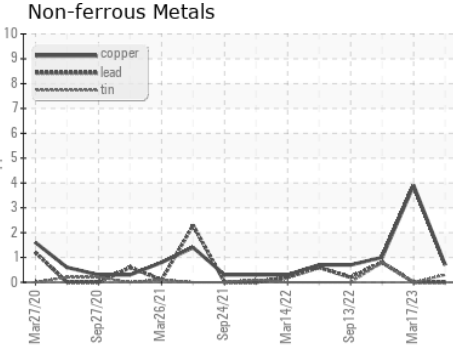
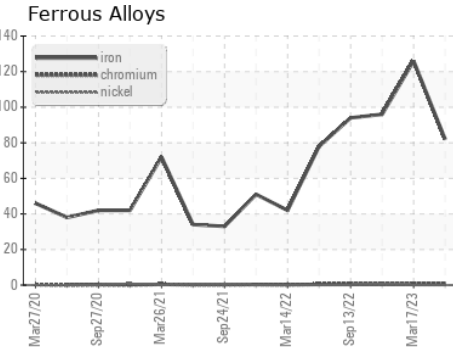


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ 393	206	209

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099341 **Received** : 11 Jul 2023
Lab Number : 05895429 **Diagnosed** : 13 Jul 2023
Unique Number : 10551239 **Diagnostician** : Don Baldrige
Test Package : IND 1 (Additional Tests: KF)

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 US 63501
 Contact: WALLACE WARD
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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)