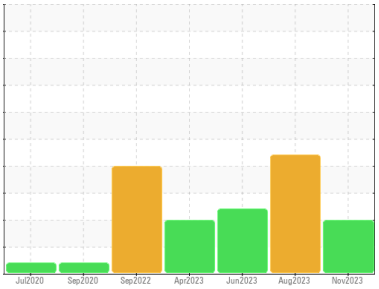
OIL DIAGNOSTICS

PROBLEM SUMMARY

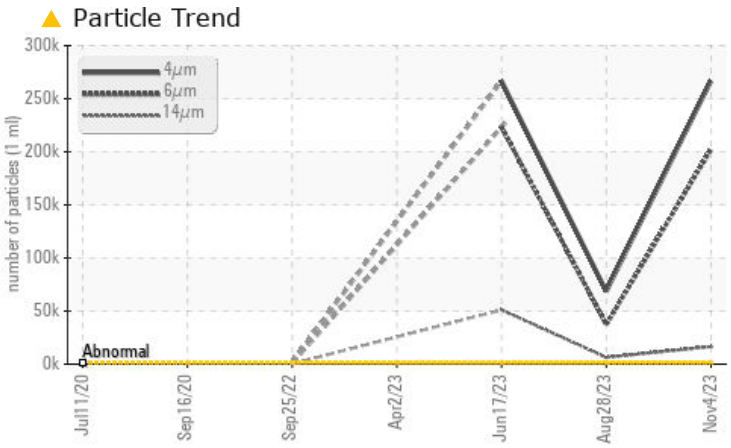
Sample Rating Trend



ISO

Area
PASTA [98527110]
Machine Id
C PRESS VACUUM MIXER
Component
Gearbox
Fluid
GEAR OIL ISO 320 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>1300	▲ **266579**	▲ 68527	▲ 266663
Particles >6µm		ASTM D7647	>320	▲ **202304**	▲ 37331	▲ 223246
Particles >14µm		ASTM D7647	>80	▲ **16471**	▲ 6353	▲ 51135
Particles >21µm		ASTM D7647	>20	▲ **666**	▲ 2140	▲ 7056
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **25/25/21**	▲ 23/22/20	▲ 25/25/23

Customer Id: KRASPRMO
Sample No.: PCA0083735
Lab Number: 06005537
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
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

28 Aug 2023 Diag: Doug Bogart

WATER

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Free water present. The AN level is acceptable for this fluid.

view report

17 Jun 2023 Diag: Don Baldridge

ISO

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

02 Apr 2023 Diag: Doug Bogart

WATER

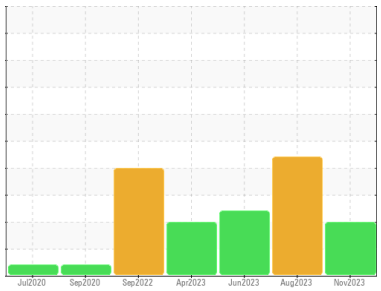
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Free water present. Moderate concentration of visible dirt/debris 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 DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
PASTA [98527110]
Machine Id
C PRESS VACUUM MIXER
Component
Gearbox
Fluid
GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

▲ Recommendation
The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. 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		**PCA0083735**	PCA0099594	PCA0073971
Sample Date		Client Info		**04 Nov 2023**	28 Aug 2023	17 Jun 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**151**	145	37
Chromium	ppm	ASTM D5185m	>15	**0**	0	0
Nickel	ppm	ASTM D5185m	>15	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	1	<1
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**0**	0	0
Barium	ppm	ASTM D5185m	15	**0**	0	0
Molybdenum	ppm	ASTM D5185m	15	**0**	0	0
Manganese	ppm	ASTM D5185m		**2**	2	<1
Magnesium	ppm	ASTM D5185m	50	**0**	2	<1
Calcium	ppm	ASTM D5185m	50	**0**	0	0
Phosphorus	ppm	ASTM D5185m	350	**517**	536	472
Zinc	ppm	ASTM D5185m	100	**0**	0	2
Sulfur	ppm	ASTM D5185m	12500	**1352**	1698	1365

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**26**	27	29
Sodium	ppm	ASTM D5185m		**6**	11	4
Potassium	ppm	ASTM D5185m	>20	**3**	5	1
Water	%	ASTM D6304	>0.2	**0.092**	0.178	NEG
ppm Water	ppm	ASTM D6304	>2000	**920**	1780	---

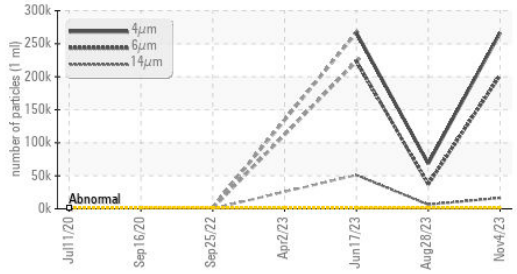
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	▲ **266579**	▲ 68527	▲ 266663
Particles >6µm		ASTM D7647	>320	▲ **202304**	▲ 37331	▲ 223246
Particles >14µm		ASTM D7647	>80	▲ **16471**	▲ 6353	▲ 51135
Particles >21µm		ASTM D7647	>20	▲ **666**	▲ 2140	▲ 7056
Particles >38µm		ASTM D7647	>4	**2**	▲ 330	▲ 15
Particles >71µm		ASTM D7647	>3	**1**	▲ 34	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **25/25/21**	▲ 23/22/20	▲ 25/25/23

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	**0.37**	0.35	0.28

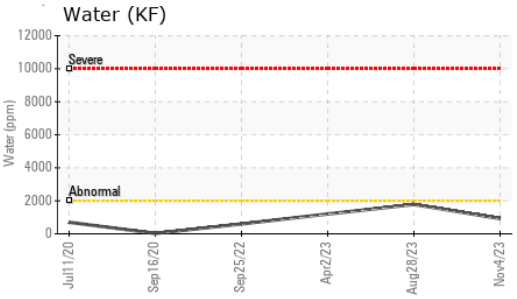
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

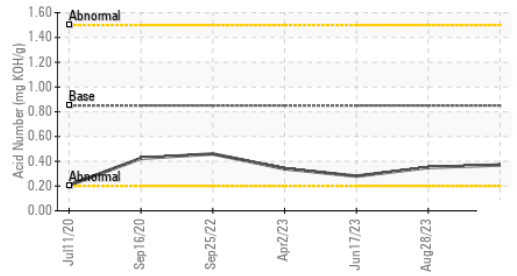
Particle Trend



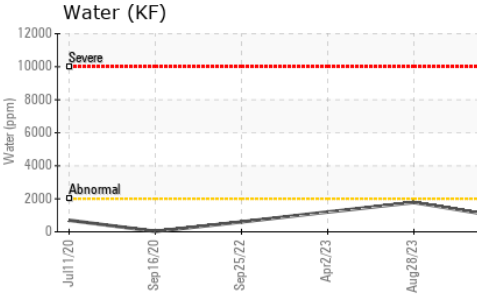
Water (KF)



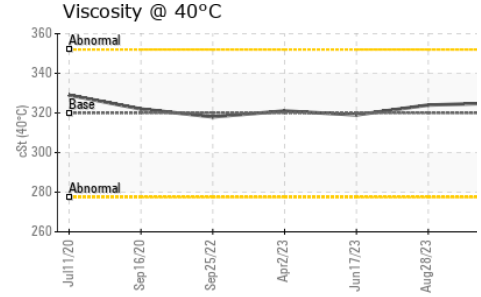
Acid Number



Water (KF)



Viscosity @ 40°C



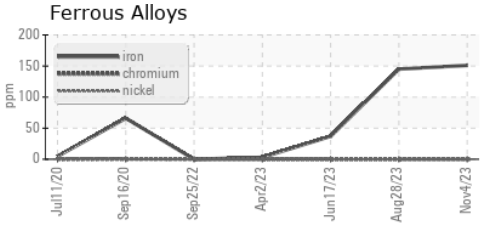
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	▲ 2.0	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	**325**	324	319

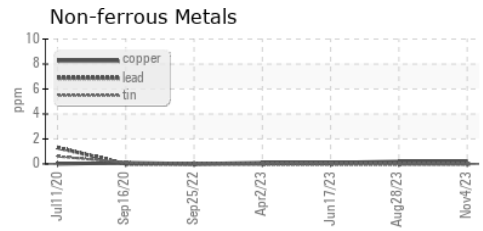
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

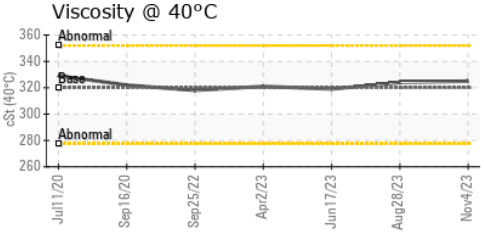
Ferrous Alloys



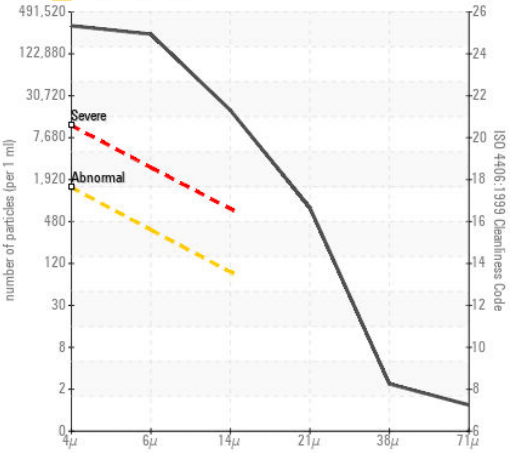
Non-ferrous Metals



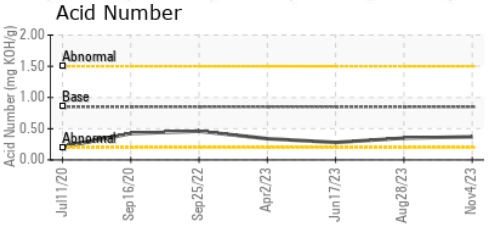
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0083735 **Received** : 13 Nov 2023
Lab Number : 06005537 **Diagnosed** : 21 Nov 2023
Unique Number : 10739299 **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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US 65804
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