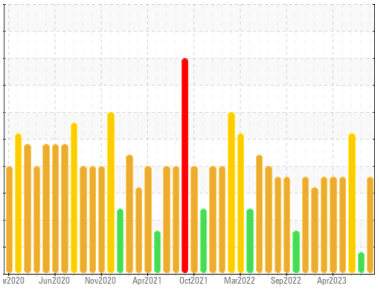
OIL DIAGNOSTICS

PROBLEM SUMMARY

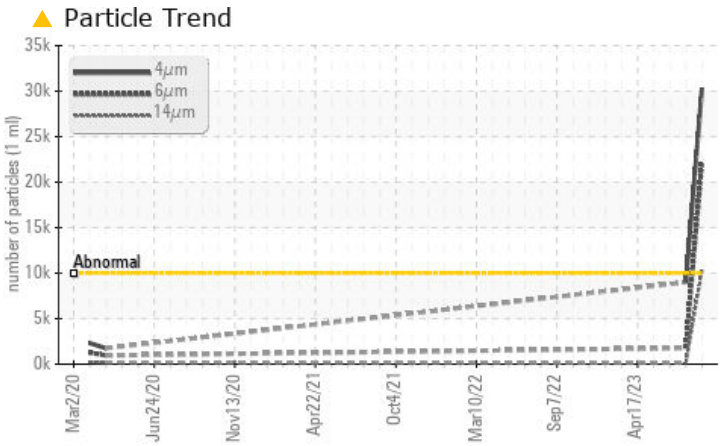
Sample Rating Trend



CONTAMINANT

Area
[98437402]
Machine Id
KR-GR-003071 - DUMPER 3A (S/N GRIND A - 11513012)
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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	ATTENTION	ABNORMAL
Particles >4µm		ASTM D7647	>10000	▲ **30310**	9013	---
Particles >6µm		ASTM D7647	>2500	▲ **22264**	1768	---
Particles >14µm		ASTM D7647	>640	▲ **10394**	93	---
Particles >21µm		ASTM D7647	>160	▲ **5000**	25	---
Particles >38µm		ASTM D7647	>40	▲ **214**	1	---
Particles >71µm		ASTM D7647	>10	▲ **13**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **22/22/21**	20/18/14	---
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ HAZY

Customer Id: KRAKIR
Sample No.: PCA0103753
Lab Number: 05945695
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

31 Jul 2023 Diag: Don Baldridge

CONTAMINANT

Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. The water content is negligible. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

16 Jun 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, 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. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. Free water present. The condition of the oil is acceptable for the time in service.

view report

11 May 2023 Diag: Don Baldridge

WATER

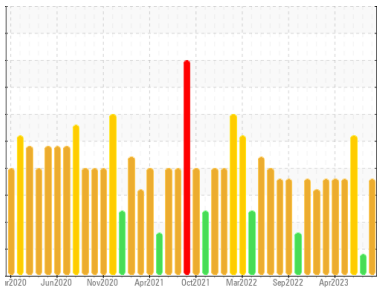
We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The condition of the oil is acceptable for the time in service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



CONTAMINANT

Area
[98437402]
Machine Id
KR-GR-003071 - DUMPER 3A (S/N GRIND A - 11513012)
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation
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
Appearance is hazy. 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		**PCA0103753**	PCA0102554	PCA0099344
Sample Date		Client Info		**05 Sep 2023**	31 Jul 2023	16 Jun 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**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**0**	0	0
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	5	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	25	**0**	<1	0
Calcium	ppm	ASTM D5185m	200	**0**	0	0
Phosphorus	ppm	ASTM D5185m	300	**448**	429	394
Zinc	ppm	ASTM D5185m	370	**0**	<1	0
Sulfur	ppm	ASTM D5185m	2500	**514**	514	551

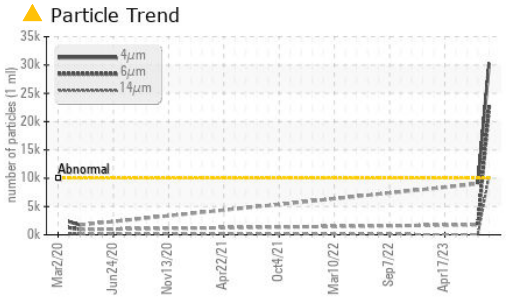
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**1**	2	1
Sodium	ppm	ASTM D5185m		**3**	0	1
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0

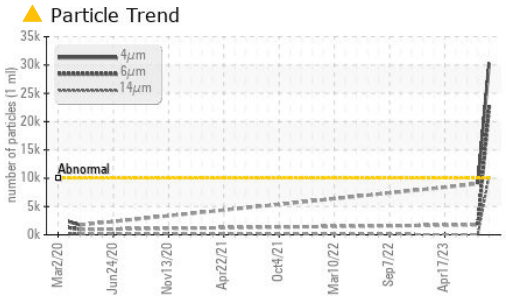
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **30310**	9013	---
Particles >6µm		ASTM D7647	>2500	▲ **22264**	1768	---
Particles >14µm		ASTM D7647	>640	▲ **10394**	93	---
Particles >21µm		ASTM D7647	>160	▲ **5000**	25	---
Particles >38µm		ASTM D7647	>40	▲ **214**	1	---
Particles >71µm		ASTM D7647	>10	▲ **13**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **22/22/21**	20/18/14	---

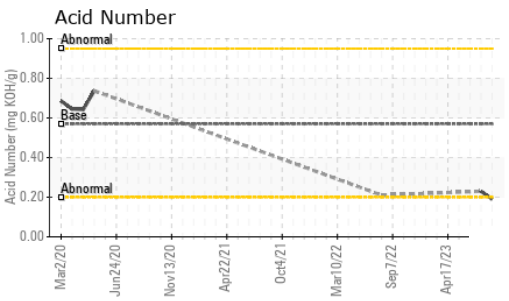
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.19**	0.23	---

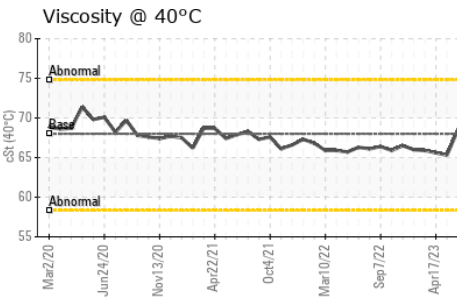
OIL ANALYSIS REPORT

OIL DIAGNOSTICS







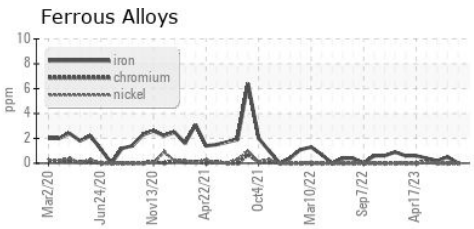


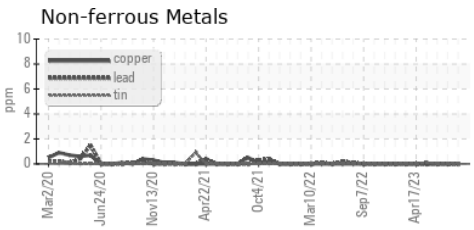
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	▲ 1.0

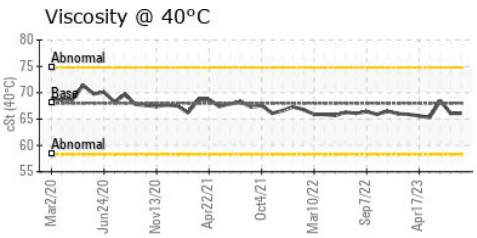
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	**66.1**	66.1	68.5

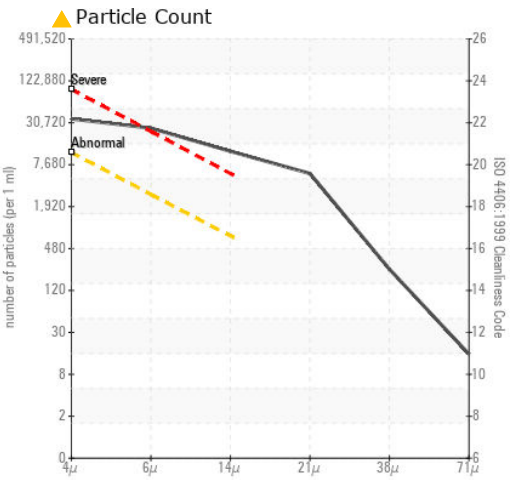
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

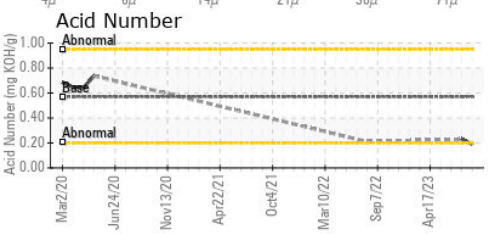
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103753
Lab Number : 05945695
Unique Number : 10636307
Test Package : IND 2

Received : 08 Sep 2023
Diagnosed : 13 Sep 2023
Diagnostician : Jonathan Hester

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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