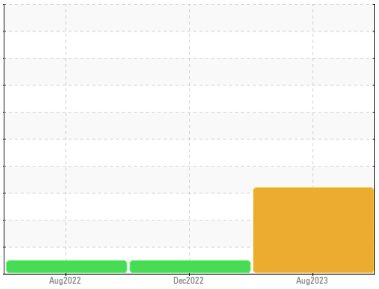
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

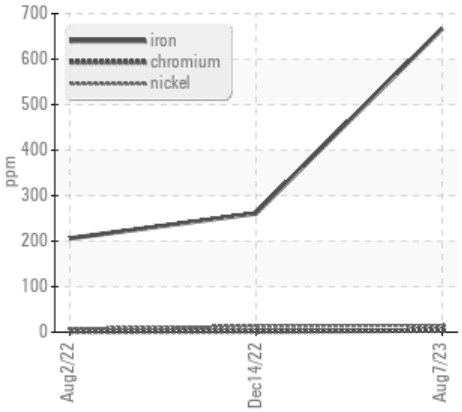


DIRT

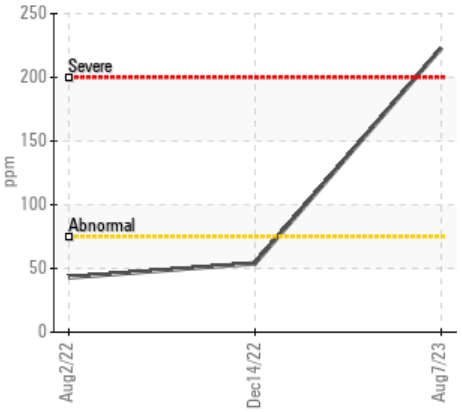
Machine Id
DT623
Component
Rear Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY

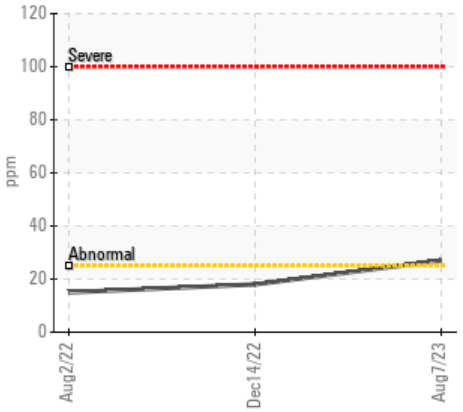
Ferrous Alloys



Silicon (ppm)



Aluminum (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	▲ **667**	261	206
Aluminum	ppm	ASTM D5185m	>25	▲ **27**	18	15
Silicon	ppm	ASTM D5185m	>75	▲ **223**	54	43

Customer Id: NWWVAR
Sample No.: PCA0101887
Lab Number: 05949561
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

14 Dec 2022 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

02 Aug 2022 Diag: Don Baldridge

NORMAL

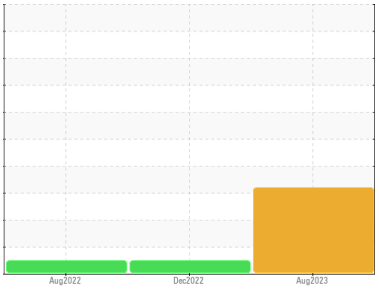
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend



DIRT

Machine Id
DT623
Component
Rear Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
Gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0101887**	PCA0087519	PCA0070690
Sample Date		Client Info		**07 Aug 2023**	14 Dec 2022	02 Aug 2022
Machine Age	mls	Client Info		**0**	0	0
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **667**	261	206
Chromium	ppm	ASTM D5185m	>10	**4**	2	1
Nickel	ppm	ASTM D5185m	>10	**15**	13	7
Titanium	ppm	ASTM D5185m		**1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **27**	18	15
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>100	**2**	<1	<1
Tin	ppm	ASTM D5185m	>10	**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	400	**169**	194	270
Barium	ppm	ASTM D5185m	200	**<1**	0	0
Molybdenum	ppm	ASTM D5185m	12	**11**	<1	<1
Manganese	ppm	ASTM D5185m		**7**	3	2
Magnesium	ppm	ASTM D5185m	12	**102**	<1	1
Calcium	ppm	ASTM D5185m	150	**149**	5	6
Phosphorus	ppm	ASTM D5185m	1650	**1349**	1302	1356
Zinc	ppm	ASTM D5185m	125	**194**	7	8
Sulfur	ppm	ASTM D5185m	22500	**25296**	25056	27880

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **223**	54	43
Sodium	ppm	ASTM D5185m		**5**	2	0
Potassium	ppm	ASTM D5185m	>20	**8**	0	2

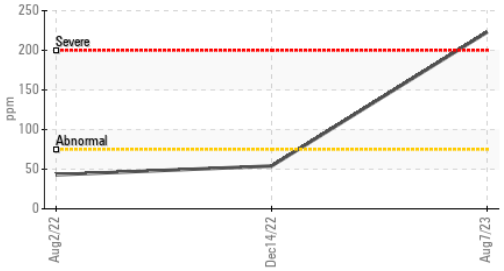
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**86.8**	96.3	97.8

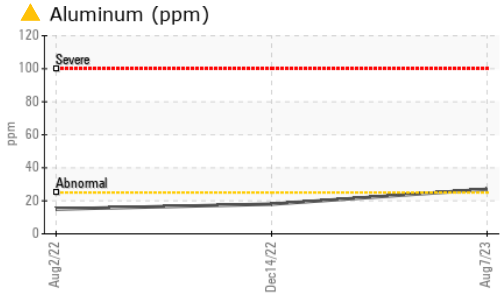
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

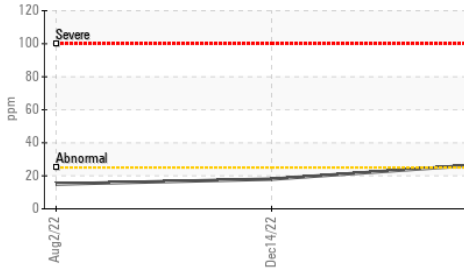
Silicon (ppm)



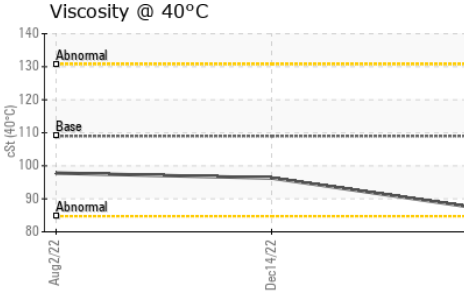
Aluminum (ppm)



Aluminum (ppm)



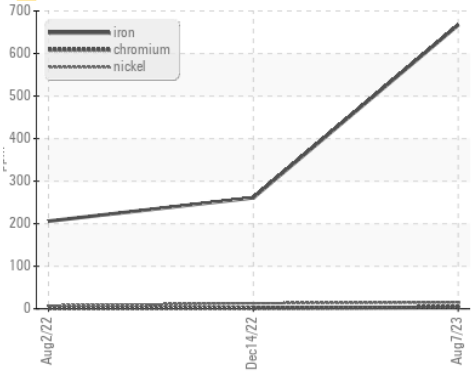
Viscosity @ 40°C



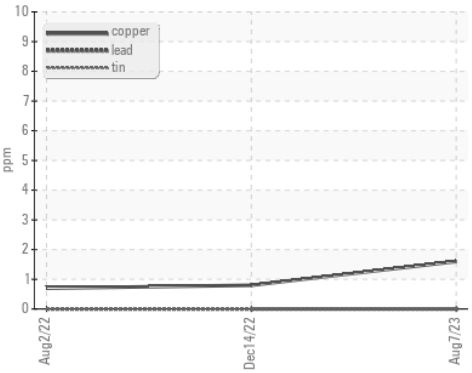
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

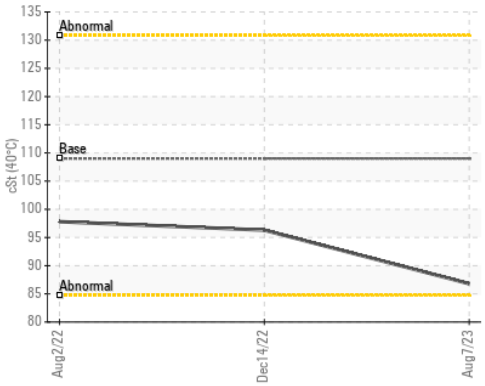
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101887
Lab Number : 05949561
Unique Number : 10645520
Test Package : FLEET

Received : 12 Sep 2023
Diagnosed : 15 Sep 2023
Diagnostician : Don Baldridge

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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VARNVILLE, SC
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Report Id: NWWVAR [WUSCAR] 05949561 (Generated: 09/15/2023 14:24:32) Rev: 1

Submitted By: DAVID WEBB