OIL ANALYSIS REPORT

360 TECHNICAL EXPERTISE | OIL DIAGNOSTICS

Sample Rating Trend

Jul2022 Dec2022 Jul2023 Jan2024

NORMAL ✓

Machine Id
DT787
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- QTS)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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	**PCA0113208**	PCA0096945	PCA0080896
Sample Date		Client Info	**26 Jan 2024**	05 Jul 2023	29 Dec 2022
Machine Age	mls	Client Info	**128927**	102990	77690
Oil Age	mls	Client Info	**103627**	25300	77690
Oil Changed		Client Info	**Not Changd**	Not Changd	Changed
Sample Status			**NORMAL**	NORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**75**	78	124
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	1
Nickel	ppm	ASTM D5185m	>10	**0**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	0
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>100	**<1**	26	35
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
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	**207**	261	239
Barium	ppm	ASTM D5185m	200	**<1**	0	0
Molybdenum	ppm	ASTM D5185m	12	**18**	23	0
Manganese	ppm	ASTM D5185m		**2**	7	21
Magnesium	ppm	ASTM D5185m	12	**177**	193	0
Calcium	ppm	ASTM D5185m	150	**266**	344	6
Phosphorus	ppm	ASTM D5185m	1650	**1203**	1509	1381
Zinc	ppm	ASTM D5185m	125	**259**	302	15
Sulfur	ppm	ASTM D5185m	22500	**20205**	23002	22477

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**12**	19	40
Sodium	ppm	ASTM D5185m		**<1**	<1	6
Potassium	ppm	ASTM D5185m	>20	**1**	2	3

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

OIL ANALYSIS REPORT

Viscosity @ 40°C
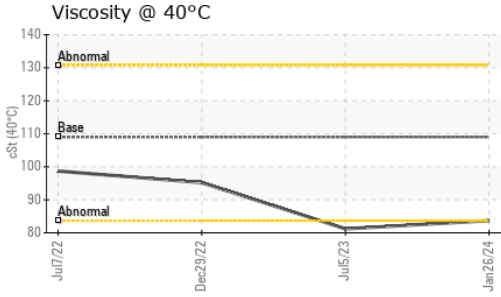
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**83.7**	81.2	95.2

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
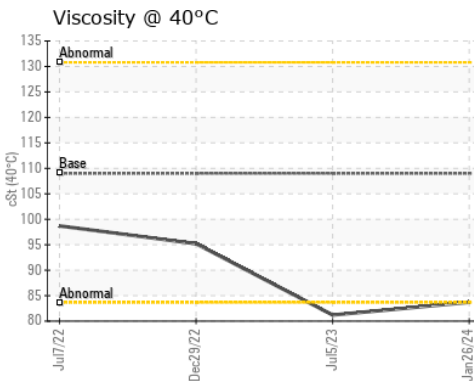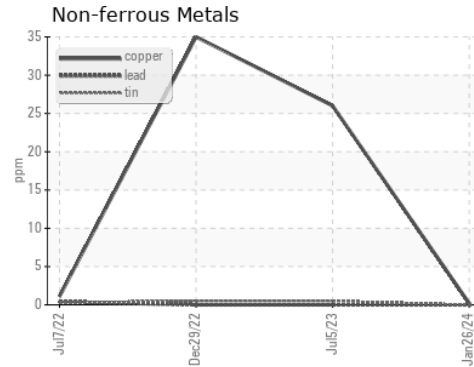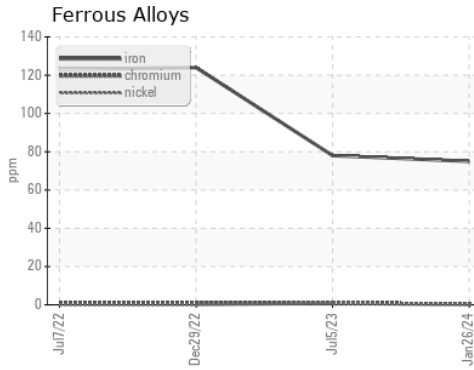
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113208   **Recieved** : 29 Jan 2024
Lab Number : 06073369   **Diagnosed** : 31 Jan 2024
Unique Number : 10850046   **Diagnostician** : Sean Felton
Test Package : FLEET

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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