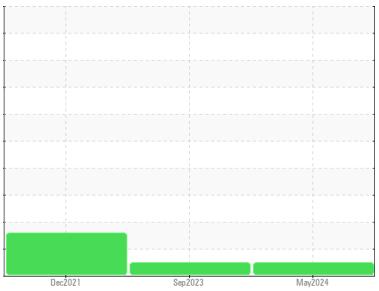
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[21289]
Machine Id
20-86
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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		**WC0923362**	WC0818623	WC0601425
Sample Date		Client Info		**10 May 2024**	08 Sep 2023	17 Dec 2021
Machine Age	hrs	Client Info		**5975**	5866	5304
Oil Age	hrs	Client Info		**671**	5866	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**57**	113	187
Chromium	ppm	ASTM D5185m	>10	**3**	1	2
Nickel	ppm	ASTM D5185m	>10	**2**	<1	0
Titanium	ppm	ASTM D5185m		**2**	<1	<1
Silver	ppm	ASTM D5185m		**3**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	1	4
Lead	ppm	ASTM D5185m	>25	**10**	13	▲ 43
Copper	ppm	ASTM D5185m	>50	**14**	17	▲ 51
Tin	ppm	ASTM D5185m	>10	**3**	<1	2
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**2**	0	0
Cadmium	ppm	ASTM D5185m		**2**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**21**	37	217
Barium	ppm	ASTM D5185m	200	**2**	0	1
Molybdenum	ppm	ASTM D5185m	12	**3**	<1	1
Manganese	ppm	ASTM D5185m		**4**	3	3
Magnesium	ppm	ASTM D5185m	12	**2**	3	2
Calcium	ppm	ASTM D5185m	150	**17**	44	138
Phosphorus	ppm	ASTM D5185m	1650	**355**	516	958
Zinc	ppm	ASTM D5185m	125	**7**	17	64
Sulfur	ppm	ASTM D5185m	22500	**20366**	27552	16040

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**5**	9	21
Sodium	ppm	ASTM D5185m	>170	**2**	2	5
Potassium	ppm	ASTM D5185m	>20	**4**	2	7

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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**	LIGHT	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	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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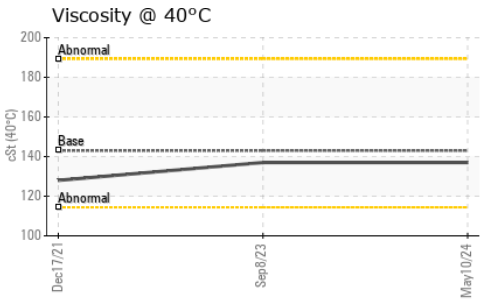
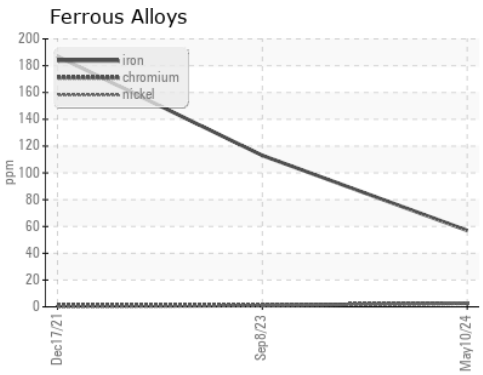
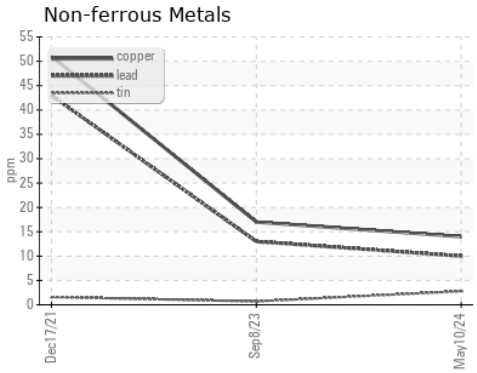


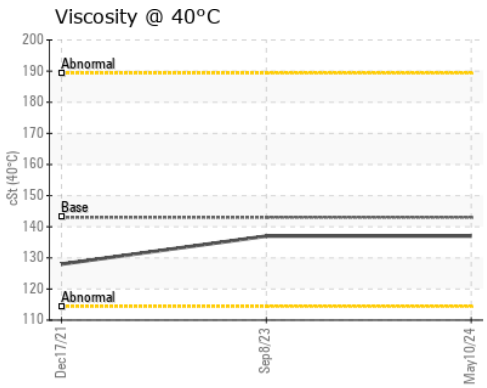
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**137**	137	128

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

GRAPHS







Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0923362
Lab Number : 06183572
Unique Number : 11034898
Test Package : CONST

Received : 17 May 2024
Tested : 20 May 2024
Diagnosed : 20 May 2024 - Wes Davis

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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Report Id: MANTUL [WUSCAR] 06183572 (Generated: 05/20/2024 12:30:35) Rev: 1

Submitted By: JAMES STEELMON