



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

EX-012

Component

Right Final Drive

Fluid

GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0909372	WC0569397	---
Sample Date	Client Info		31 May 2024	22 Apr 2021	---
Machine Age	hrs	Client Info	3404	1556	---
Oil Age	hrs	Client Info	0	1556	---
Oil Changed	Client Info		N/A	Not Changd	---
Sample Status			ATTENTION	ATTENTION	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	480	409	---
Chromium	ppm	ASTM D5185m >10	13	11	---
Nickel	ppm	ASTM D5185m >10	2	1	---
Titanium	ppm	ASTM D5185m	2	2	---
Silver	ppm	ASTM D5185m	0	<1	---
Aluminum	ppm	ASTM D5185m >25	15	13	---
Lead	ppm	ASTM D5185m >25	0	<1	---
Copper	ppm	ASTM D5185m >50	5	6	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	36	25	---
Barium	ppm	ASTM D5185m 200	27	39	---
Molybdenum	ppm	ASTM D5185m 12	12	17	---
Manganese	ppm	ASTM D5185m	8	7	---
Magnesium	ppm	ASTM D5185m 12	0	12	---
Calcium	ppm	ASTM D5185m 150	3197	4129	---
Phosphorus	ppm	ASTM D5185m 1650	574	620	---
Zinc	ppm	ASTM D5185m 125	540	719	---
Sulfur	ppm	ASTM D5185m 22500	5777	2670	---

CONTAMINANTS

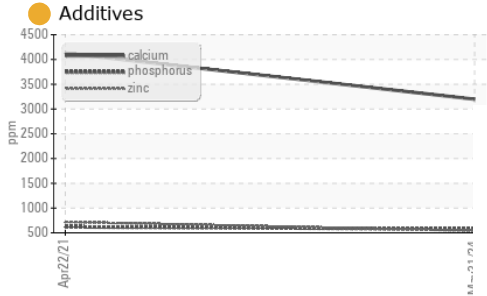
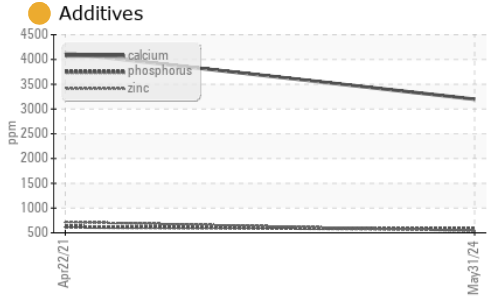
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	46	42	---
Sodium	ppm	ASTM D5185m >170	4	1	---
Potassium	ppm	ASTM D5185m >20	7	6	---

VISUAL

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



OIL ANALYSIS REPORT



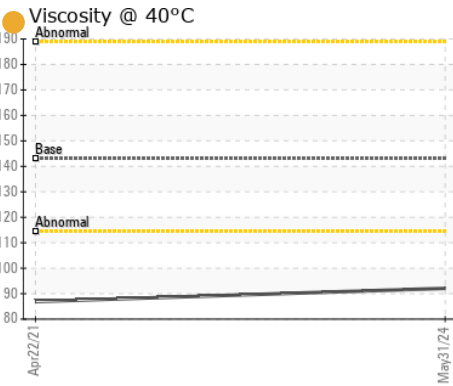
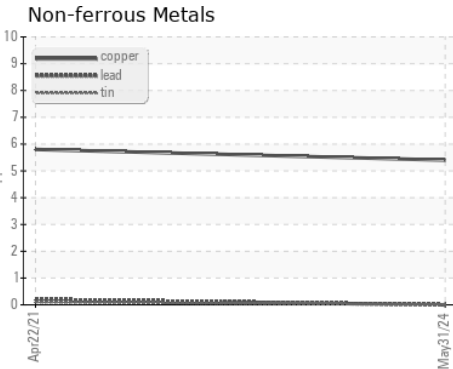
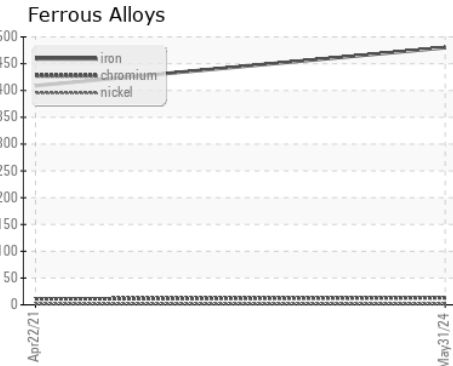
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	92.1	86.9	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0909372 **Received** : 15 Jul 2024
Lab Number : 06236636 **Tested** : 16 Jul 2024
Unique Number : 11125470 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : FLEET

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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)