



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

Machine Id
70049
Component
Pump Drive
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

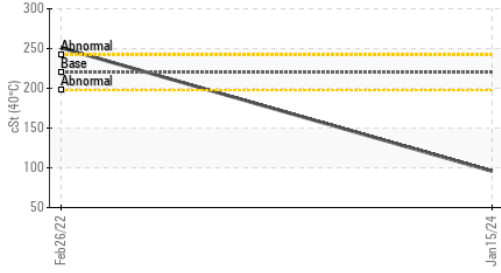
Appearance is layered. There is no indication of any contamination in the oil.

FLUID CONDITION

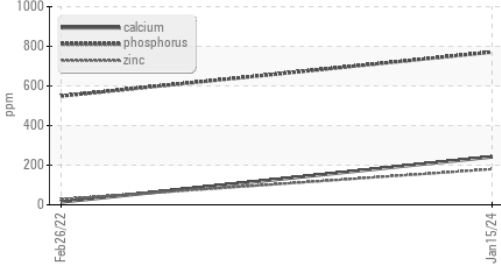
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034832	DC0019507	---
Sample Date		Client Info		15 Jan 2024	26 Feb 2022	---
Machine Age	hrs	Client Info		3678	2365	---
Oil Age	hrs	Client Info		1000	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	NORMAL	---
Iron	ppm	ASTM D5185m	>500	319	17	---
Chromium	ppm	ASTM D5185m	>15	2	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		6	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>20	14	2	---
Lead	ppm	ASTM D5185m		0	<1	---
Copper	ppm	ASTM D5185m	>35	2	<1	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	46	12	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ LAYRD	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		0	<1	---
Boron	ppm	ASTM D5185m	50	2	17	---
Barium	ppm	ASTM D5185m	15	<1	0	---
Molybdenum	ppm	ASTM D5185m	15	<1	<1	---
Manganese	ppm	ASTM D5185m		3	<1	---
Magnesium	ppm	ASTM D5185m	50	11	3	---
Calcium	ppm	ASTM D5185m	50	▲ 242	14	---
Phosphorus	ppm	ASTM D5185m	350	▲ 771	549	---
Zinc	ppm	ASTM D5185m	100	180	28	---
Sulfur	ppm	ASTM D5185m	12500	15297	686	---
Visc @ 40°C	cSt	ASTM D445	220	▲ 95.7	251	---

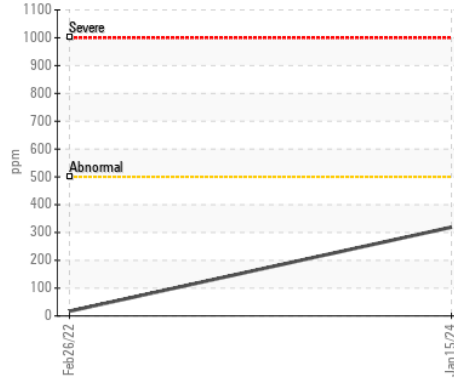
▲ Viscosity @ 40°C



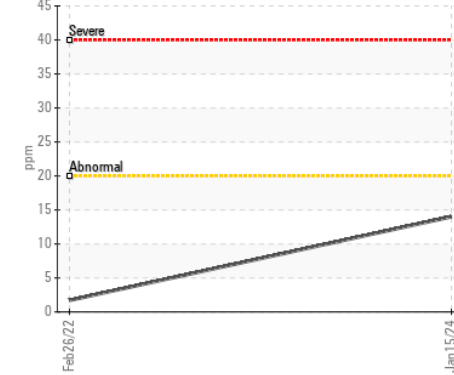
▲ Additives



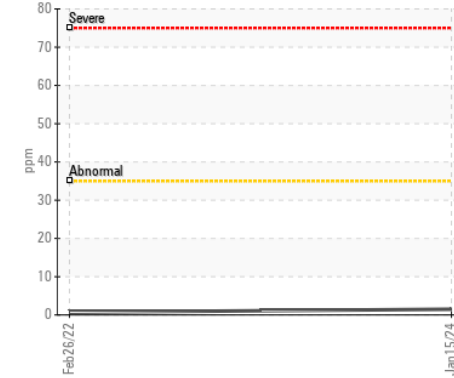
Iron (ppm)



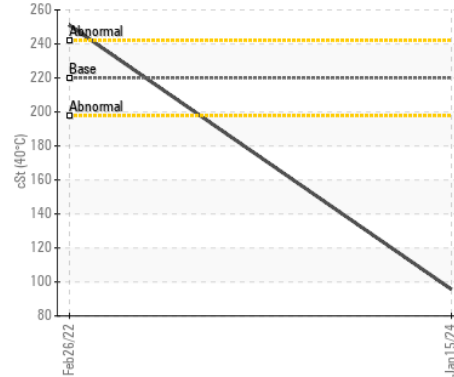
Aluminum (ppm)



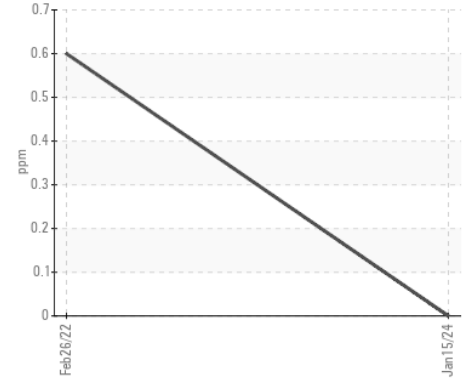
Copper (ppm)



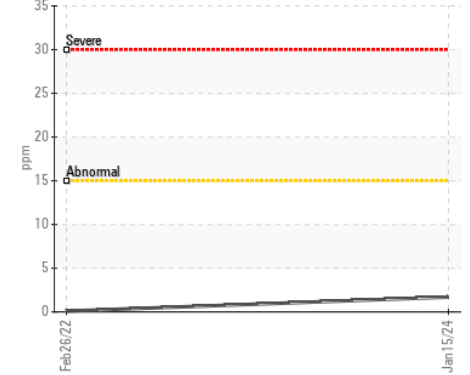
▲ Viscosity @ 40°C



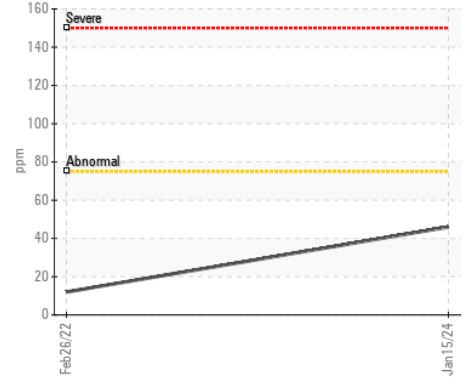
Lead (ppm)



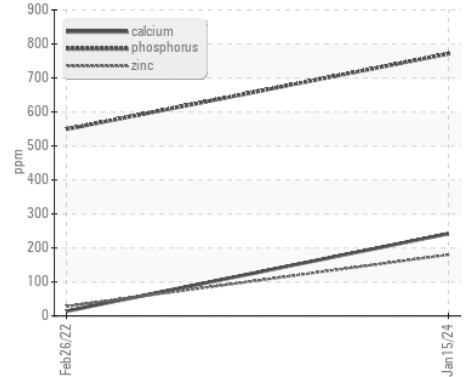
Chromium (ppm)



Silicon (ppm)



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : DC0034832 Recieved : 01 Feb 2024
 Lab Number : 06077202 Diagnosed : 03 Feb 2024
 Unique Number : 10859293 Diagnostician : Don Baldrige
 Test Package : MOB 1

FRANCIS O DAY
 14900 SOUTHLAWN LN
 ROCKVILLE, MD
 US 20850
 Contact: JAMIE FORESTER

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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F: