



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
[20909]

Machine Id
30-69

Component
Right Final Drive

Fluid
CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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

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		WC0836154	WC0818708	---
Sample Date	Client Info		21 Dec 2023	31 May 2023	---
Machine Age	hrs	Client Info	3897	3634	---
Oil Age	hrs	Client Info	1897	634	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			ABNORMAL	ABNORMAL	---

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	391	348	---
Chromium	ppm	ASTM D5185m >10	6	5	---
Nickel	ppm	ASTM D5185m >10	<1	1	---
Titanium	ppm	ASTM D5185m	3	3	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	▲ 42	▲ 30	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	19	12	---
Tin	ppm	ASTM D5185m >10	0	0	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	84	97	---
Barium	ppm	ASTM D5185m	0	<1	---
Molybdenum	ppm	ASTM D5185m	5	6	---
Manganese	ppm	ASTM D5185m	4	4	---
Magnesium	ppm	ASTM D5185m 350	586	565	---
Calcium	ppm	ASTM D5185m 1800	1569	1512	---
Phosphorus	ppm	ASTM D5185m 1000	1093	1033	---
Zinc	ppm	ASTM D5185m 1100	1160	1124	---
Sulfur	ppm	ASTM D5185m 3500	3945	4368	---

CONTAMINANTS

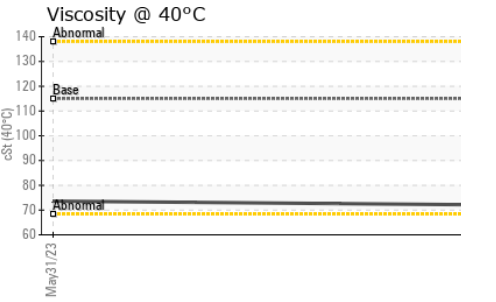
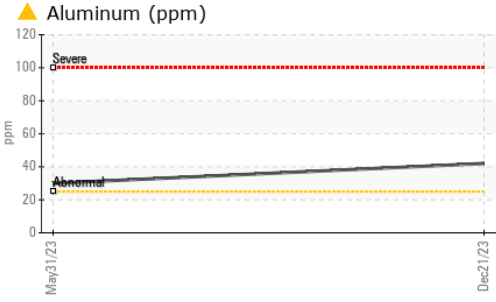
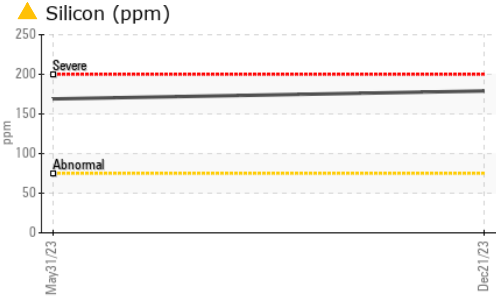
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 179	▲ 169	---
Sodium	ppm	ASTM D5185m	6	<1	---
Potassium	ppm	ASTM D5185m >20	11	11	---

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	LIGHT	MODER	---
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	---



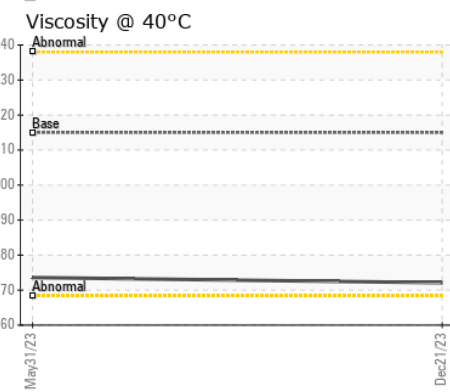
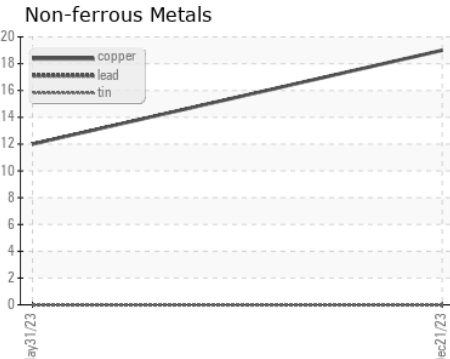
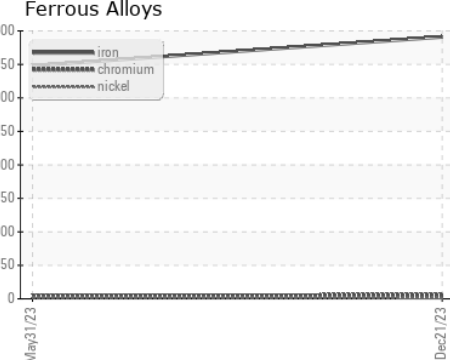
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 115	72.1	73.6	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0836154 **Received** : 09 Jan 2024
Lab Number : 06056093 **Diagnosed** : 11 Jan 2024
Unique Number : 10822042 **Diagnostician** : Jonathan Hester
Test Package : CONST

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 TULSA, OK
 US 74146
 Contact: BEN CALDWELL
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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)