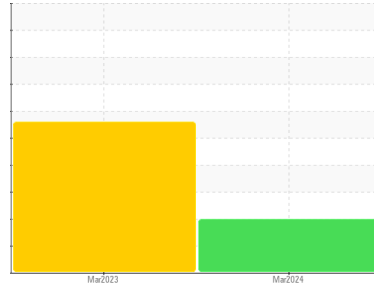




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
[226.998.1008]
 Machine Id
BLOW P1 PRESS
 Component
Hydraulic System
 Fluid
CHEVRON GEAR COMPOUND EP 220 (100 LTR)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0900181	WC0790179	---
Sample Date	Client Info	22 Mar 2024	28 Mar 2023	---
Machine Age	yrs Client Info	6	1	---
Oil Age	yrs Client Info	6	1	---
Oil Changed	Client Info	Filtered	Not Changd	---
Sample Status		ABNORMAL	SEVERE	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	13	19	---
Chromium	ppm ASTM D5185(m) >20	0	0	---
Nickel	ppm ASTM D5185(m) >20	0	0	---
Titanium	ppm ASTM D5185(m)	0	0	---
Silver	ppm ASTM D5185(m)	0	0	---
Aluminum	ppm ASTM D5185(m) >20	<1	2	---
Lead	ppm ASTM D5185(m) >20	0	1	---
Copper	ppm ASTM D5185(m) >20	15	33	---
Tin	ppm ASTM D5185(m) >20	0	<1	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	2	5	---
Barium	ppm ASTM D5185(m)	0	0	---
Molybdenum	ppm ASTM D5185(m)	0	0	---
Manganese	ppm ASTM D5185(m)	0	<1	---
Magnesium	ppm ASTM D5185(m)	<1	<1	---
Calcium	ppm ASTM D5185(m)	3	4	---
Phosphorus	ppm ASTM D5185(m)	155	156	---
Zinc	ppm ASTM D5185(m)	25	43	---
Sulfur	ppm ASTM D5185(m)	5040	7307	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	5	7	---
Sodium	ppm ASTM D5185(m)	<1	4	---
Potassium	ppm ASTM D5185(m) >20	<1	1	---

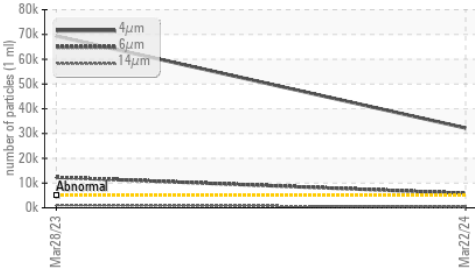
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 32211	▲ 69346	---
Particles >6µm	ASTM D7647 >1300	▲ 5827	▲ 12301	---
Particles >14µm	ASTM D7647 >160	▲ 357	▲ 1120	---
Particles >21µm	ASTM D7647 >40	▲ 87	▲ 300	---
Particles >38µm	ASTM D7647 >10	4	4	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/20/16	▲ 23/21/17	---

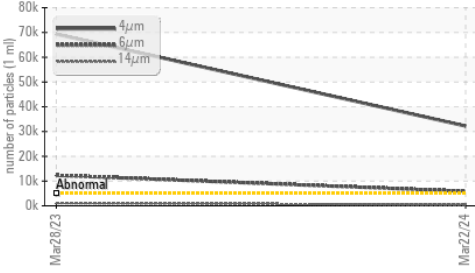


OIL ANALYSIS REPORT

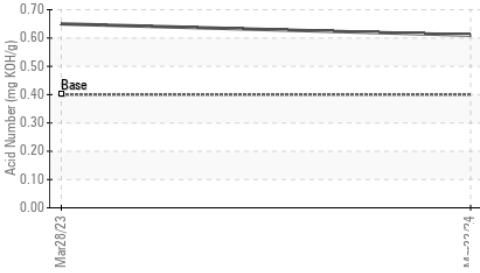
▲ Particle Trend



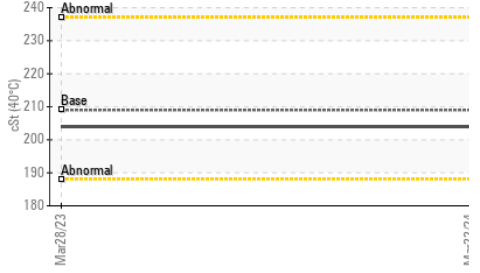
▲ Particle Trend



Acid Number



Viscosity @ 40°C



FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	0.61	0.65	---

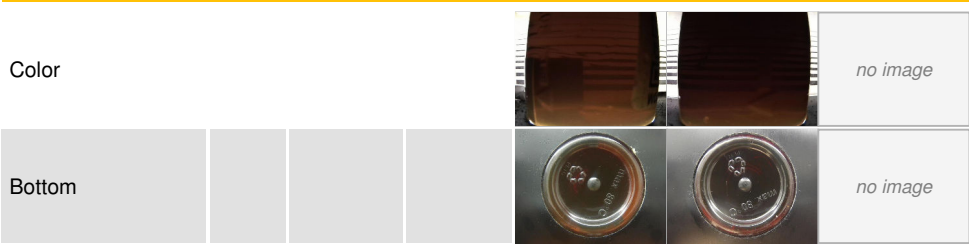
VISUAL

	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	NONE	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*	>0.05	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES

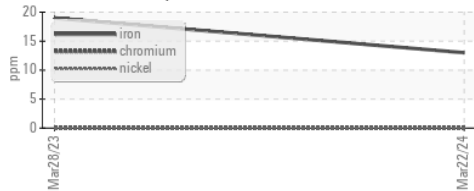
	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	209	204	▲ 204	---

SAMPLE IMAGES

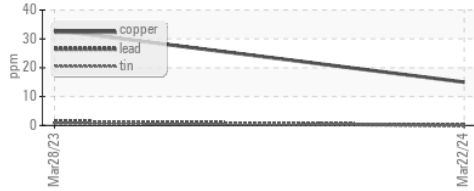


GRAPHS

Ferrous Alloys



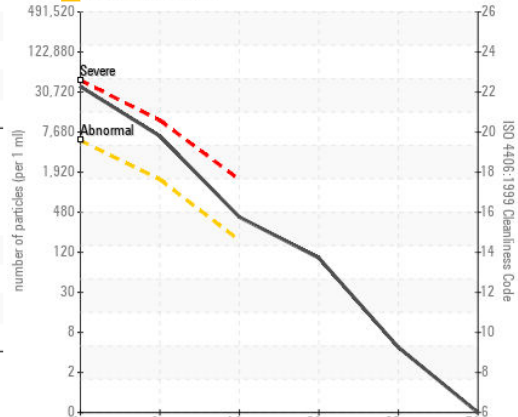
Non-ferrous Metals



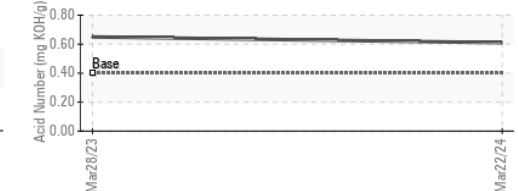
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0900181 **Received** : 27 Mar 2024
Lab Number : **02625052** **Tested** : 28 Mar 2024
Unique Number : 5750171 **Diagnosed** : 28 Mar 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: TAN Man)

Leggett & Platt Automotive Group
 459 Industrial Ave
 London, ON
 CA N5V E35
 Contact: Ralph Butt
 ralph.butt@leggett.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.