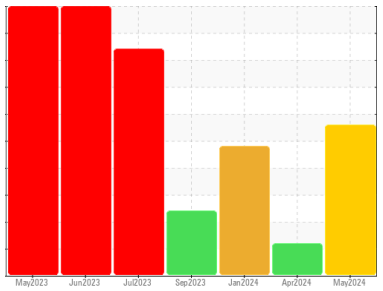
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
SPIDER - CANNING
Component
Gearbox
Fluid
TULCO LUBSOIL PG 460 GEAR OIL (5 GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present 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		**TO10003452**	TO10003304	TO90002187
Sample Date		Client Info		**28 May 2024**	09 Apr 2024	16 Jan 2024
Machine Age	mths	Client Info		**1**	1	1
Oil Age	mths	Client Info		**1**	1	1
Oil Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**55**	256	62
Iron	ppm	ASTM D5185m	>200	▲ **422**	67	30
Chromium	ppm	ASTM D5185m	>15	**2**	0	<1
Nickel	ppm	ASTM D5185m	>15	**1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	● **25**	▲ 46	▲ 104
Lead	ppm	ASTM D5185m	>100	**13**	6	0
Copper	ppm	ASTM D5185m	>200	▲ **215**	29	7
Tin	ppm	ASTM D5185m	>25	**8**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	8	**5**	0	4
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**8**	0	0
Manganese	ppm	ASTM D5185m		**6**	0	0
Magnesium	ppm	ASTM D5185m		**22**	3	8
Calcium	ppm	ASTM D5185m		**274**	657	1093
Phosphorus	ppm	ASTM D5185m	800	**777**	378	479
Zinc	ppm	ASTM D5185m	7	**131**	236	441
Sulfur	ppm	ASTM D5185m	400	**466**	232	524

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **55**	41	▲ 68
Sodium	ppm	ASTM D5185m		**11**	<1	6
Potassium	ppm	ASTM D5185m	>20	**21**	2	2
Water	%	ASTM D6304	>2.26	▲ **2.79**	1.90	1.33
ppm Water	ppm	ASTM D6304	>22600	▲ **27900**	19000	13300

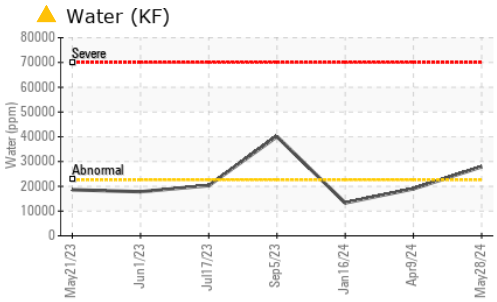
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	MODER	▲ VHEVY
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	● MILKY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	▲ **0.2%**	0.2%	▲ 0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

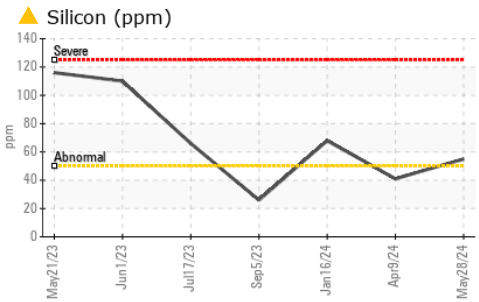
OIL ANALYSIS REPORT

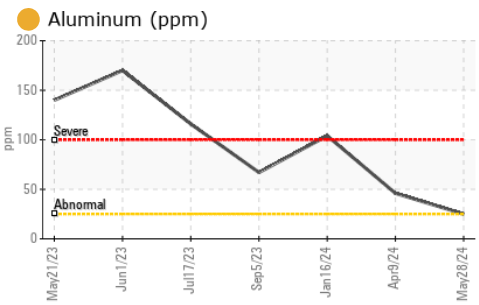
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	450	**459**	503	▲ 1728
Visc @ 100°C	cSt	ASTM D445	80.0	**77.8**	85.3	▲ 362
Viscosity Index (VI)	Scale	ASTM D2270	260	**251**	256	---

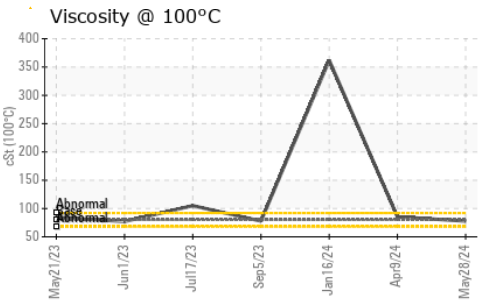
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

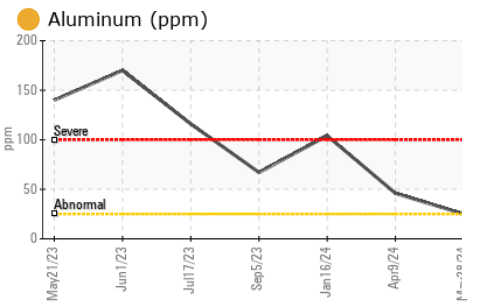
GRAPHS

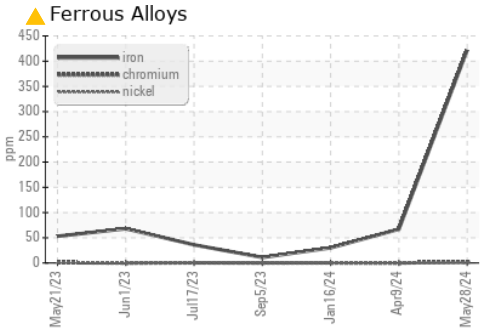


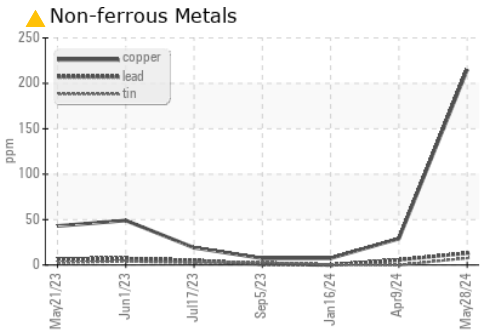


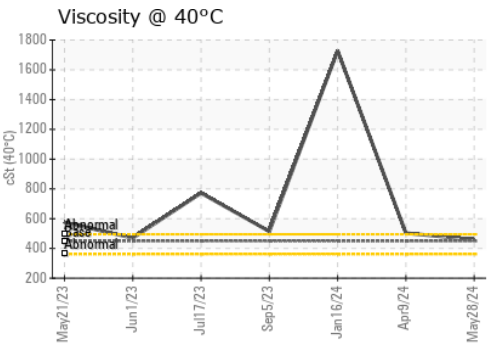


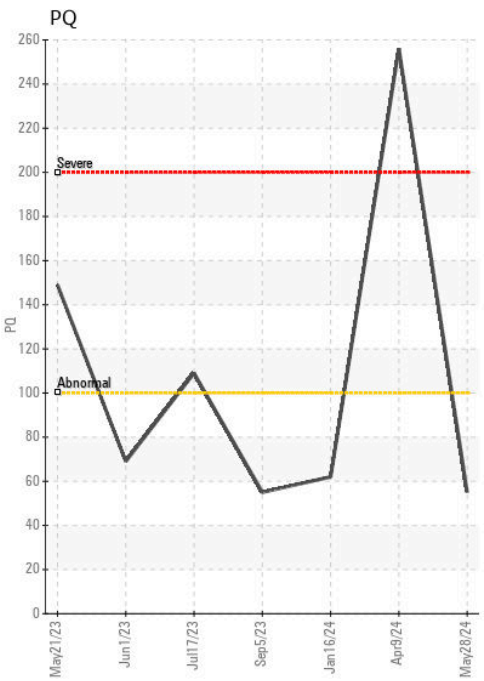


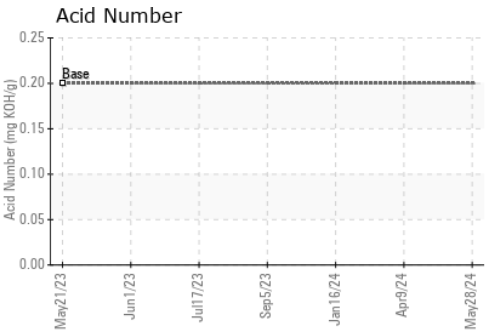












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003452 **Received** : 31 May 2024
Lab Number : 06197042 **Tested** : 04 Jun 2024
Unique Number : 11059165 **Diagnosed** : 04 Jun 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

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)

PEPSI BOTTLING GROUP
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TULSA, OK
US 74107
Contact: Service Manager
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F:

Report Id: PEPTUL [WUSCAR] 06197042 (Generated: 06/05/2024 08:16:39) Rev: 1
Submitted By: RYAN DAVIS