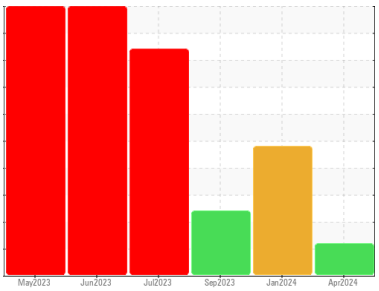
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

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

DIAGNOSIS

Recommendation
We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The aluminum level is abnormal.

Contamination
Moderate concentration of visible dirt/debris 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		**TO10003304**	TO90002187	TO10002547
Sample Date		Client Info		**09 Apr 2024**	16 Jan 2024	05 Sep 2023
Machine Age	mths	Client Info		**1**	1	1
Oil Age	mths	Client Info		**1**	1	1
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**256**	62	55
Iron	ppm	ASTM D5185m	>200	**67**	30	11
Chromium	ppm	ASTM D5185m	>15	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **46**	▲ 104	▲ 67
Lead	ppm	ASTM D5185m	>100	**6**	0	<1
Copper	ppm	ASTM D5185m	>200	**29**	7	7
Tin	ppm	ASTM D5185m	>25	**0**	<1	3
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

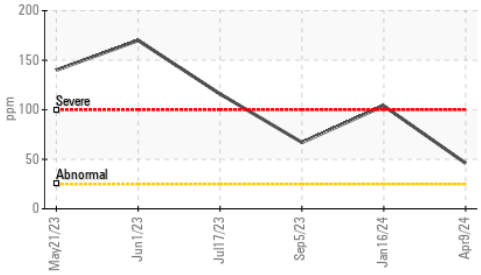
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	8	**0**	4	11
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**3**	8	6
Calcium	ppm	ASTM D5185m		**657**	1093	814
Phosphorus	ppm	ASTM D5185m	800	**378**	479	798
Zinc	ppm	ASTM D5185m	7	**236**	441	331
Sulfur	ppm	ASTM D5185m	400	**232**	524	1198

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**41**	▲ 68	26
Sodium	ppm	ASTM D5185m		**<1**	6	0
Potassium	ppm	ASTM D5185m	>20	**2**	2	4
Water	%	ASTM D6304	>2.26	**1.90**	1.33	▲ 4.01
ppm Water	ppm	ASTM D6304	>22600	**19000**	13300	▲ 40100

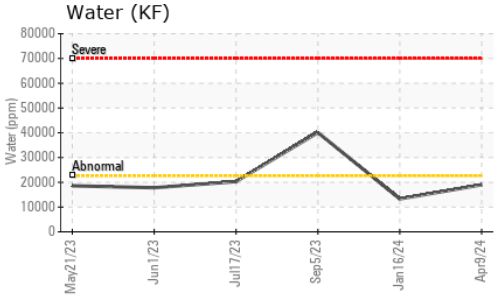
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	▲ VHEVY	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	● MILKY	NORML
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

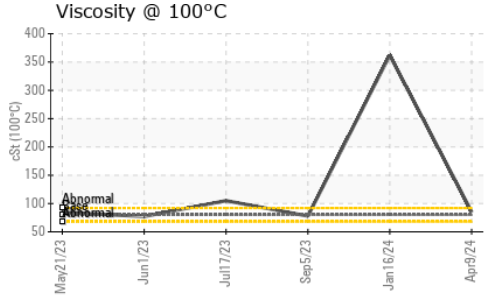
Aluminum (ppm)



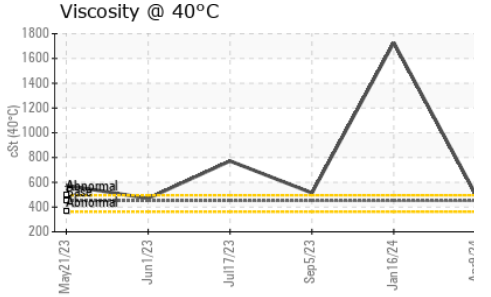
Water (KF)



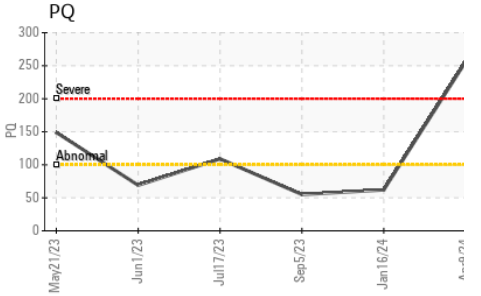
Viscosity @ 100°C



Viscosity @ 40°C



PQ

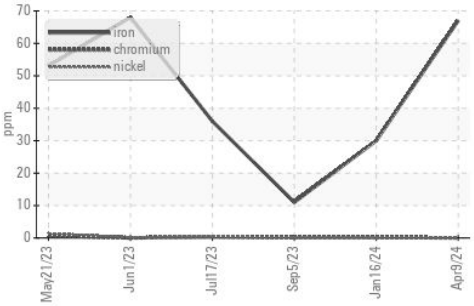


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	450	**503**	▲ 1728	514
Visc @ 100°C	cSt	ASTM D445	80.0	**85.3**	▲ 362	77.8
Viscosity Index (VI)	Scale	ASTM D2270	260	**256**	---	235

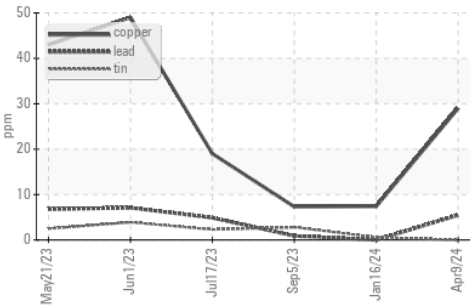
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*		
Bottom			*no image*		

GRAPHS

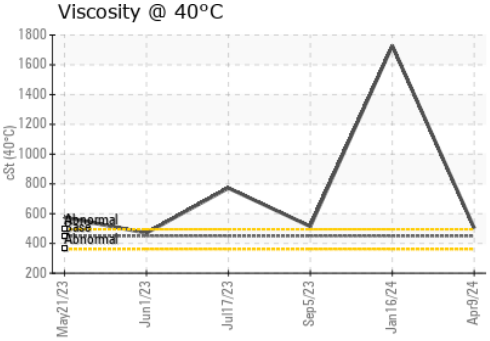
Ferrous Alloys



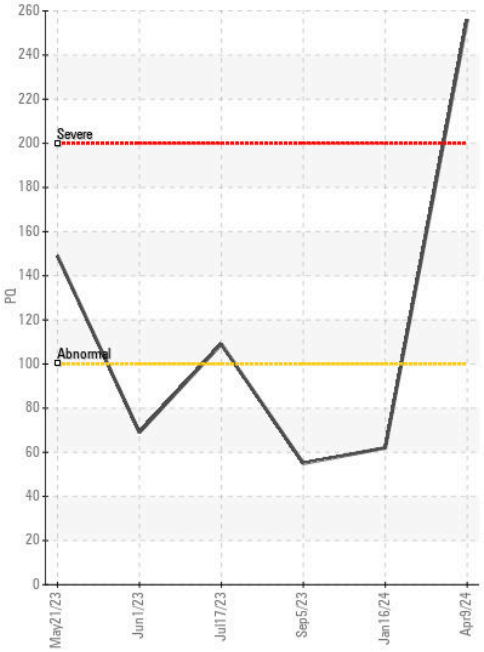
Non-ferrous Metals



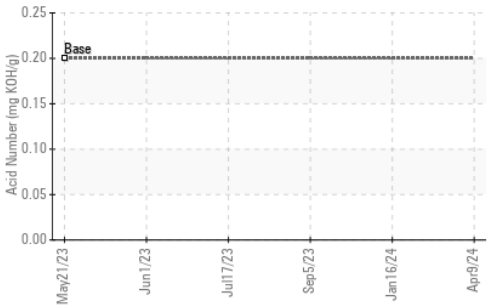
Viscosity @ 40°C



PQ



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003304 **Received** : 11 Apr 2024
Lab Number : 06146776 **Tested** : 16 Apr 2024
Unique Number : 10976854 **Diagnosed** : 16 Apr 2024 - Jonathan Hester
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
510 W SKELLY DR
TULSA, OK
US 74107
Contact: Service Manager
T:
F:

Report Id: PEPTUL [WUSCAR] 06146776 (Generated: 04/16/2024 11:56:53) Rev: 1

Submitted By: RYAN DAVIS