



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**L-2 FILLER**  
 Component  
**Gearbox**  
 Fluid  
**TULCO LUBSOIL PG 460 GEAR OIL (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO10003446</b>	TO10001919	TO10002000
Sample Date		Client Info		<b>13 Jun 2024</b>	16 Jan 2024	13 Jul 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	NORMAL

## WEAR

Bearing and/or gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>92</b>	78	37
Iron	ppm	ASTM D5185m	>200	<b>▲ 278</b>	58	12
Chromium	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	10	6
Lead	ppm	ASTM D5185m	>100	<b>2</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>▲ 219</b>	2	23
Tin	ppm	ASTM D5185m	>25	<b>9</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

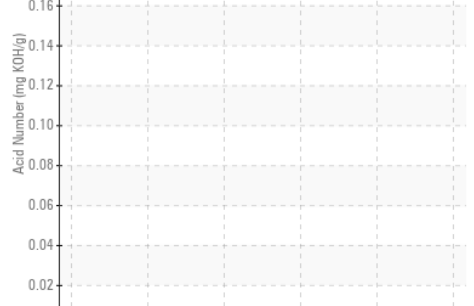
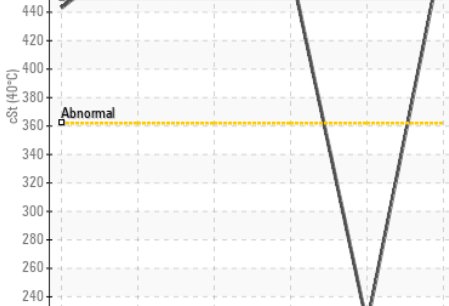
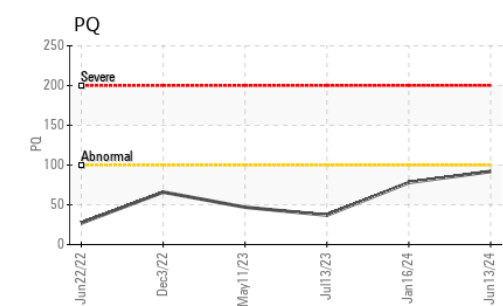
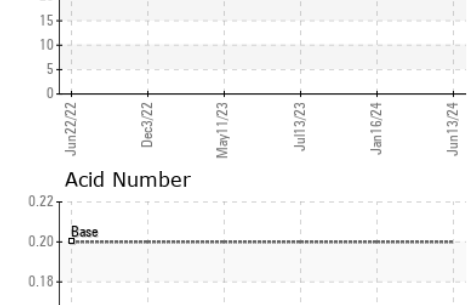
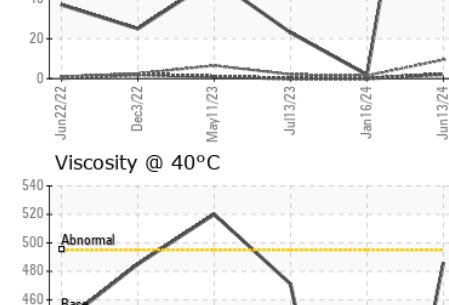
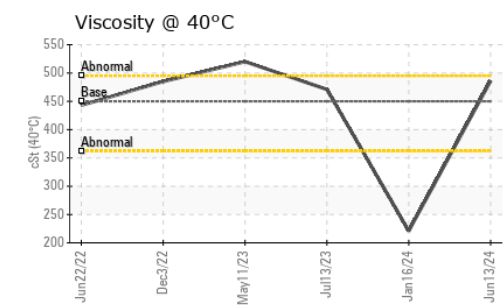
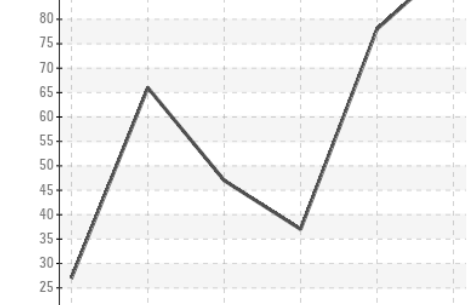
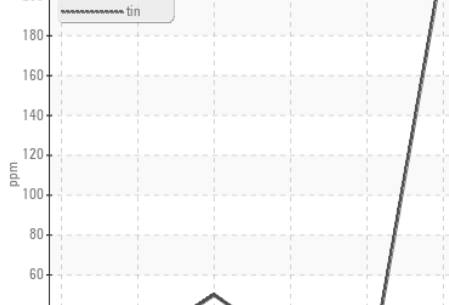
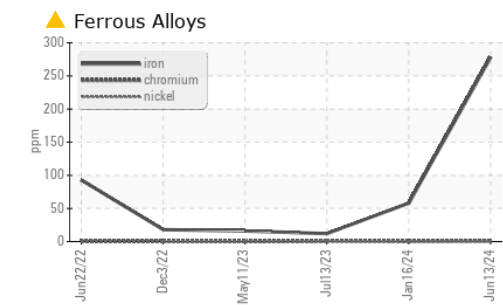
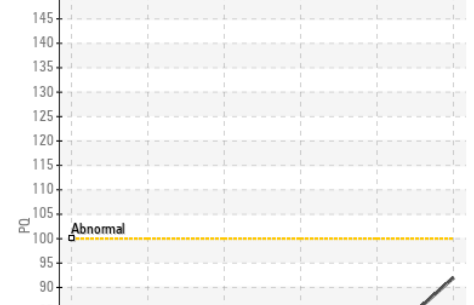
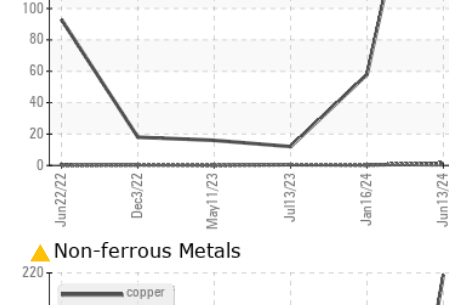
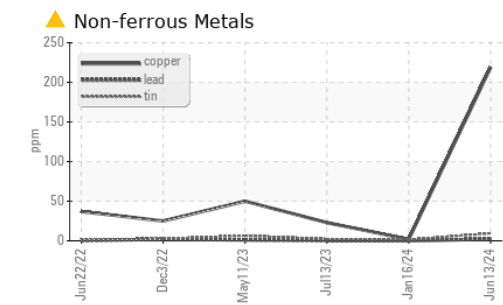
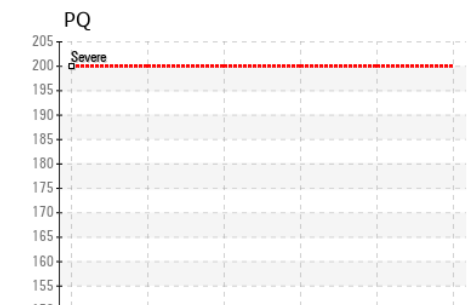
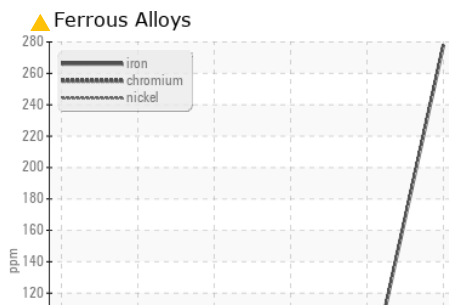
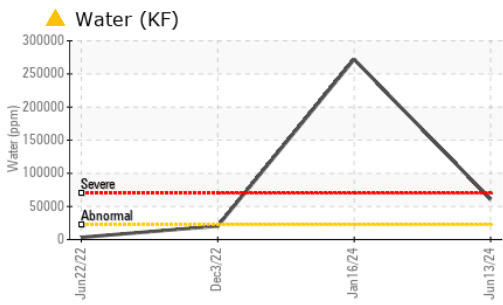
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>8</b>	8	17
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water	%	ASTM D6304	>2.26	<b>▲ 6.06</b>	▲ 27.2	---
ppm Water	ppm	ASTM D6304	>22600	<b>▲ 60600</b>	▲ 272000	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	▲ VHEVY	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	● MILKY	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	<b>▲ 0.2%</b>	▲ 0.2%	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	12	11
Boron	ppm	ASTM D5185m	8	<b>15</b>	12	13
Barium	ppm	ASTM D5185m		<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>3</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>43</b>	33	38
Phosphorus	ppm	ASTM D5185m	800	<b>986</b>	576	1278
Zinc	ppm	ASTM D5185m	7	<b>66</b>	0	70
Sulfur	ppm	ASTM D5185m	400	<b>2355</b>	557	1514
Visc @ 40°C	cSt	ASTM D445	450	<b>486</b>	● 221	471
Visc @ 100°C	cSt	ASTM D445	80.0	<b>92.5</b>	● 48.5	77.5
Viscosity Index (VI)	Scale	ASTM D2270	260	<b>277</b>	276	247



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003446 **Received** : 18 Jun 2024  
**Lab Number** : 06213649 **Tested** : 20 Jun 2024  
**Unique Number** : 11086513 **Diagnosed** : 20 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, VI )

**PEPSI BOTTLING GROUP**  
 510 W SKELLY DR  
 TULSA, OK  
 US 74107  
 Contact: Service Manager

Certificate L2367  
 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)