



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**RIBLET DOUBLE HIDDEN TREASURE (S/N 3048)**

Component  
**Left Gearbox**

Fluid  
**CHEVRON DELO GEAR ESI OIL 80W90 (65 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05822846	---	---
Sample Date		Client Info		12 Apr 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		1800	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				NORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	23	---	---
Chromium	ppm	ASTM D5185m	>10	1	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	0	---	---
Lead	ppm	ASTM D5185m	>50	20	---	---
Copper	ppm	ASTM D5185m	>200	<1	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

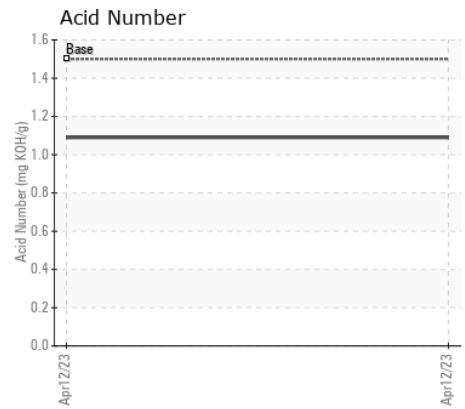
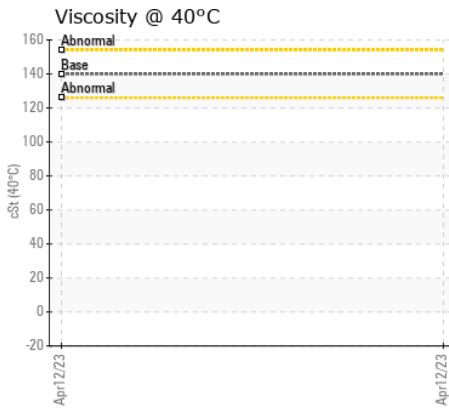
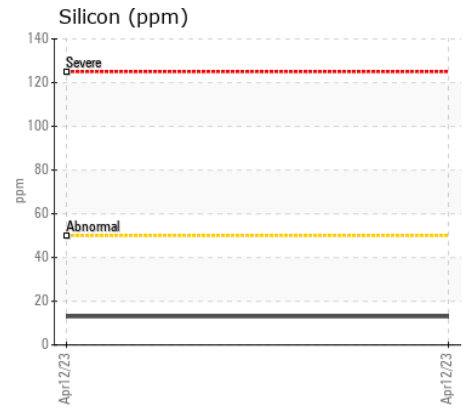
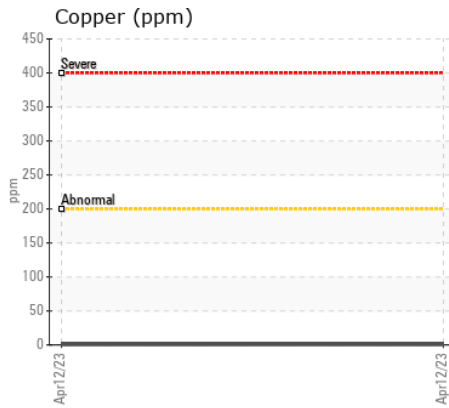
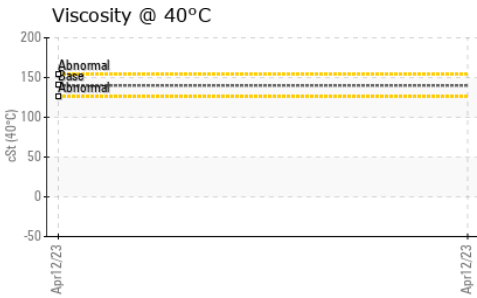
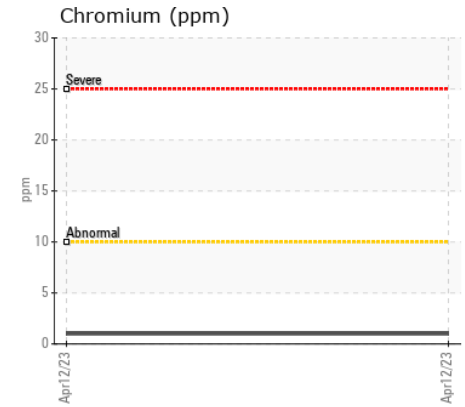
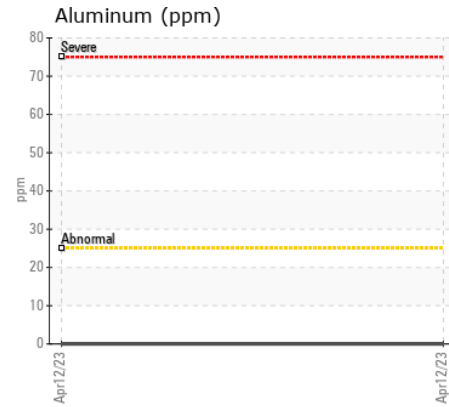
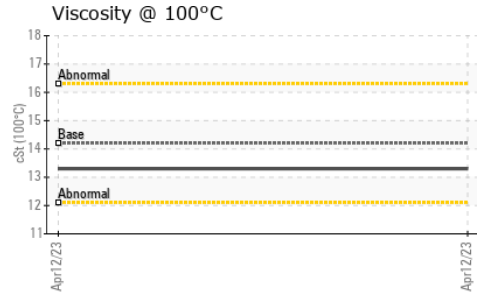
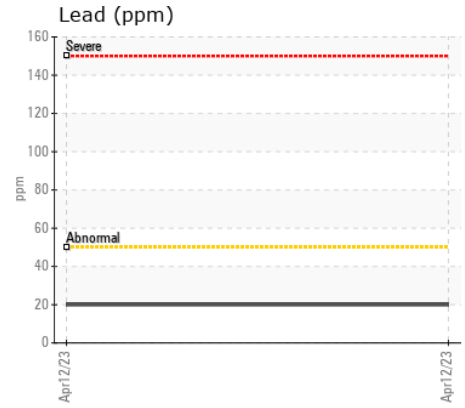
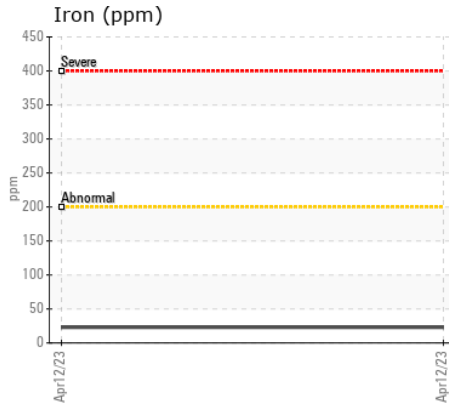
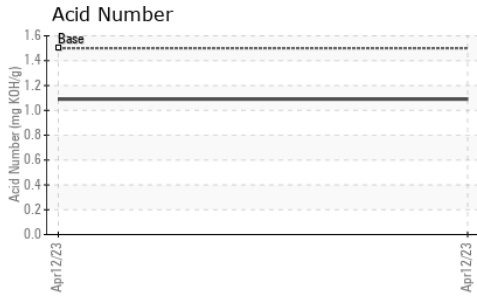
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	13	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		16	---	---
Boron	ppm	ASTM D5185m	15	45	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	0	7	---	---
Calcium	ppm	ASTM D5185m	5	66	---	---
Phosphorus	ppm	ASTM D5185m	600	455	---	---
Zinc	ppm	ASTM D5185m	0	41	---	---
Sulfur	ppm	ASTM D5185m	22000	20824	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	1.09	---	---
Visc @ 100°C	cSt	ASTM D445	14.2	13.3	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TR05822846

**Lab Number** : 05822846

**Unique Number** : 10430929

**Test Package** : MOB 2 ( Additional Tests: KV100 )

**Received** : 18 Apr 2023

**Tested** : 20 Apr 2023

**Diagnosed** : 20 Apr 2023 - Jonathan Hester

**MT SPOKANE SKI AAND SNOWBOARD PARK**

29500 N MT SPOKANE PARK DRIVE

MEAD, WA

US 99021

Contact: RON GROGAN

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

T:

F: