

# OIL ANALYSIS REPORT



Area  
**East Chicago Operations**  
 Machine Id  
**LIEBHERR R912 MH-85 (S/N 5007455)**  
 Component  
**Rear Left Tandem**  
 Fluid  
**PETRO CANADA TRAXON 80W90 (--- GAL)**

## Sample Rating Trend



**WEAR**



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0113786</b>	---	---
Sample Date	Client Info		<b>28 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>1838</b>	---	---
Oil Age	hrs	Client Info	<b>1838</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>425	<b>▲ 763</b>	---
Chromium	ppm	ASTM D5185m	>5	<b>4</b>	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>5	<b>3</b>	---
Lead	ppm	ASTM D5185m		<b>1</b>	---
Copper	ppm	ASTM D5185m	>8	<b>22</b>	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	243	<b>79</b>	---
Barium	ppm	ASTM D5185m	1	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>8</b>	---
Magnesium	ppm	ASTM D5185m	2	<b>3</b>	---
Calcium	ppm	ASTM D5185m	6	<b>72</b>	---
Phosphorus	ppm	ASTM D5185m	987	<b>1062</b>	---
Zinc	ppm	ASTM D5185m	1	<b>56</b>	---
Sulfur	ppm	ASTM D5185m	21530	<b>22890</b>	---

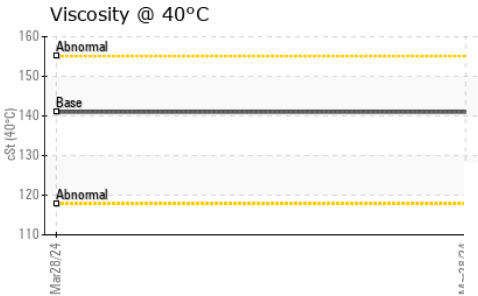
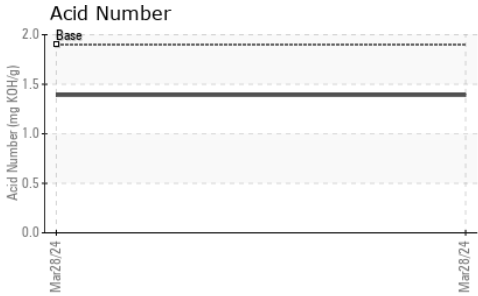
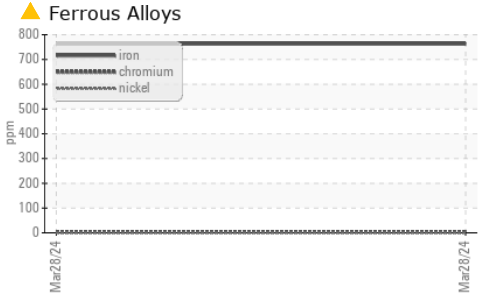
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>17</b>	---
Sodium	ppm	ASTM D5185m		<b>19</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.9	<b>1.39</b>	---

# OIL ANALYSIS REPORT

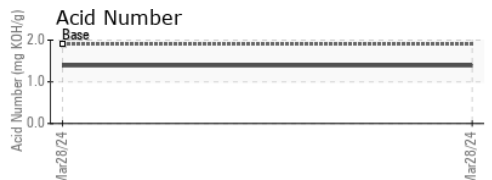
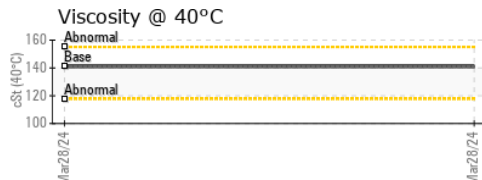
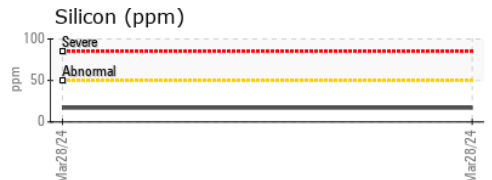
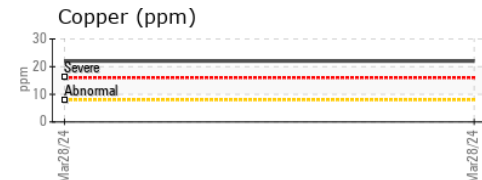
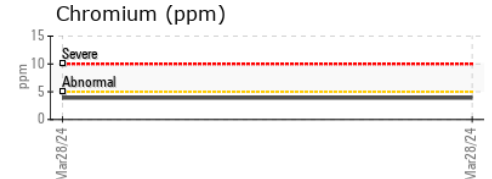
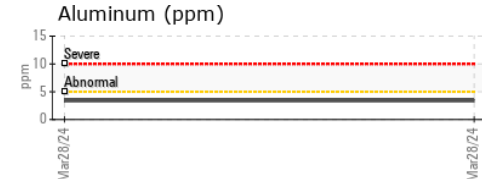
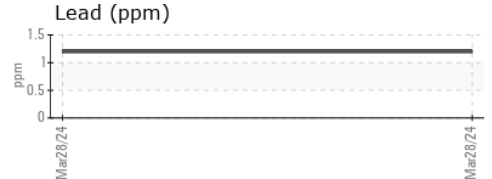
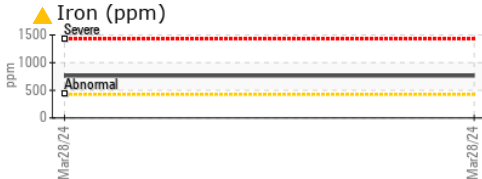


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	141.0	141	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113786      **Received** : 05 Apr 2024  
**Lab Number** : 06140088      **Tested** : 08 Apr 2024  
**Unique Number** : 10964896      **Diagnosed** : 08 Apr 2024 - Don Baldrige  
**Test Package** : MOB 2

**SCRAP METAL SERVICES**  
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 US 46312  
 Contact: DAN GERTLER  
 dgertler@scrapmetalservices.com  
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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)