



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

## INDUSTRIAL LUBRICANT 15W40 BULK

Component

Tank New (Unused) Oil

Fluid

{not provided} (--- LTR)

### DIAGNOSIS

#### ▲ Recommendation

This is a baseline read-out on the submitted sample. Please note that this is a corrected copy for laboratory data updates for elements.

#### ▲ Contamination

There is a high amount of particulates present in the oil.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KL0009579</b>	---	---
Sample Date	Client Info	<b>12 Jan 2023</b>	---	---
Machine Age	mls Client Info	<b>0</b>	---	---
Oil Age	mls Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

### CONTAMINATION

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

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	<b>2</b>	---	---
Chromium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m	<b>1</b>	---	---
Lead	ppm ASTM D5185m	<b>1</b>	---	---
Copper	ppm ASTM D5185m	<b>0</b>	---	---
Tin	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>315</b>	---	---
Barium	ppm ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>56</b>	---	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m	<b>341</b>	---	---
Calcium	ppm ASTM D5185m	<b>1521</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>1005</b>	---	---
Zinc	ppm ASTM D5185m	<b>980</b>	---	---
Sulfur	ppm ASTM D5185m	<b>3760</b>	---	---

### CONTAMINANTS

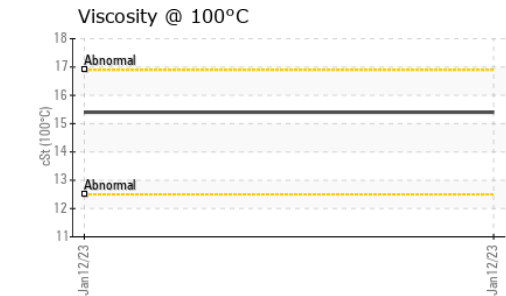
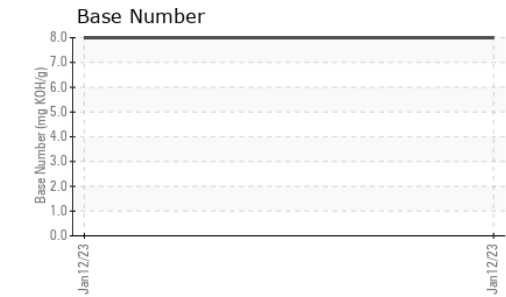
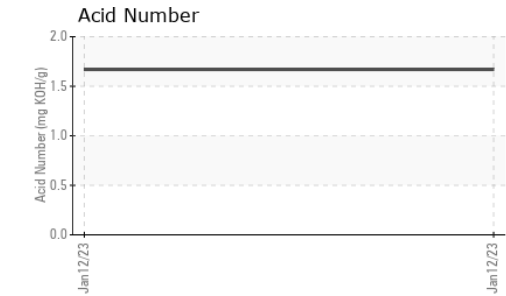
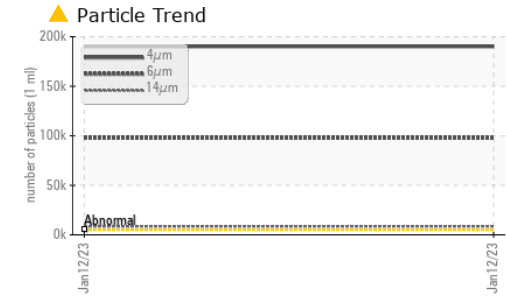
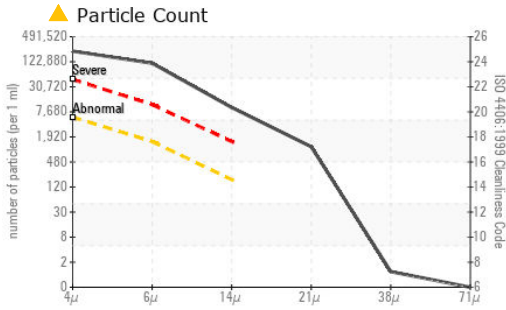
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<b>5</b>	---	---
Sodium	ppm ASTM D5185m	<b>2</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>5</b>	---	---

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ <b>190094</b>	---	---
Particles >6µm	ASTM D7647 >1300	▲ <b>97672</b>	---	---
Particles >14µm	ASTM D7647 >160	▲ <b>8502</b>	---	---
Particles >21µm	ASTM D7647 >40	▲ <b>978</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ <b>25/24/20</b>	---	---



# OIL ANALYSIS REPORT



Certificate L2367

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

**Sample No.** : KL0009579

**Lab Number** : 05740141

**Unique Number** : 10294740

**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )

**Received** : 16 Jan 2023

**Tested** : 15 Feb 2023

**Diagnosed** : 15 Feb 2023 - Doug Bogart

**PUREFRAC LLC**

13216 TX-191

MIDLAND, TX

US 79707

Contact: Service Manager

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)

T:

F:

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.67</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.00</b>	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>115</b>	---	---
Visc @ 100°C	cSt	ASTM D445	<b>15.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	<b>140</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					