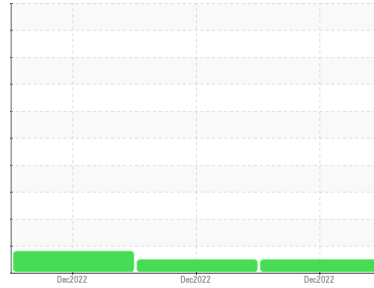




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**FP-12 POWER END**

Component  
**Pump**  
Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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	history 1	history 2
Sample Number	Client Info		<b>KL0009577</b>	KL0009575	KL0009573
Sample Date	Client Info		<b>21 Dec 2022</b>	19 Dec 2022	02 Dec 2022
Machine Age	hrs	Client Info	<b>20523</b>	20476	20428
Oil Age	hrs	Client Info	<b>695</b>	648	600
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >500	<b>7</b>	6	4
Chromium	ppm	ASTM D5185m >7	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	<b>1</b>	1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m >35	<b>2</b>	2	<1
Copper	ppm	ASTM D5185m >50	<b>8</b>	7	8
Tin	ppm	ASTM D5185m >5	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	<b>7</b>	9	9
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>45</b>	49	47
Calcium	ppm	ASTM D5185m	<b>192</b>	193	204
Phosphorus	ppm	ASTM D5185m	<b>267</b>	274	262
Zinc	ppm	ASTM D5185m	<b>95</b>	97	99
Sulfur	ppm	ASTM D5185m	<b>10727</b>	10753	10582

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >50	<b>&lt;1</b>	1	2
Sodium	ppm	ASTM D5185m	<b>12</b>	15	16
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0

## FLUID CLEANLINESS

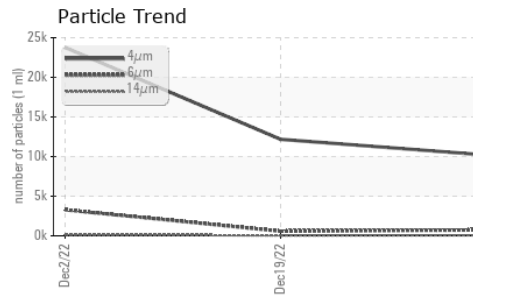
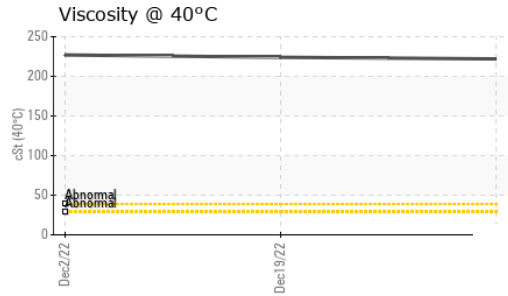
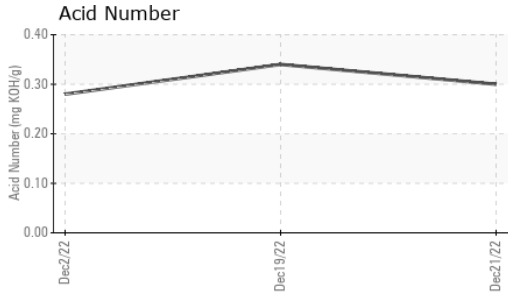
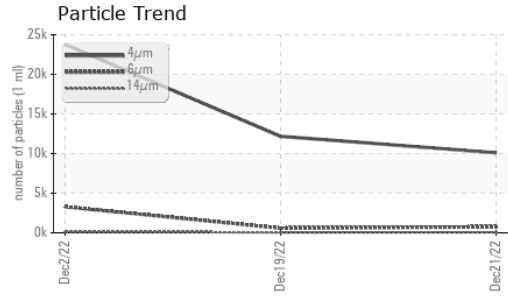
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>10097</b>	12179	23771
Particles >6µm	ASTM D7647	>1300	<b>758</b>	584	▲ 3281
Particles >14µm	ASTM D7647	>160	<b>69</b>	51	122
Particles >21µm	ASTM D7647	>40	<b>15</b>	10	27
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>17/14	<b>17/13</b>	16/13	▲ 19/14

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.30</b>	0.34	0.28



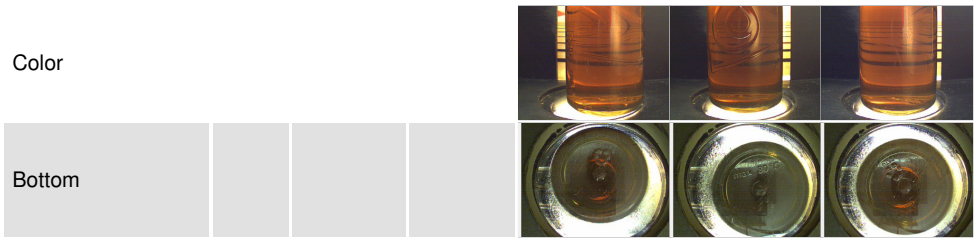
# OIL ANALYSIS REPORT



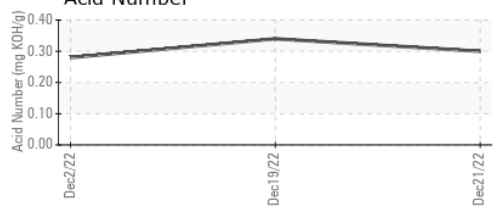
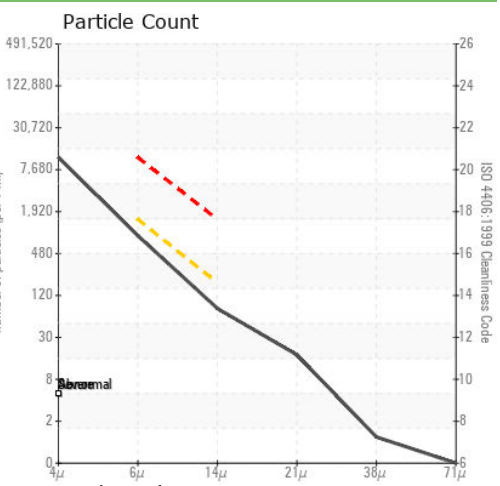
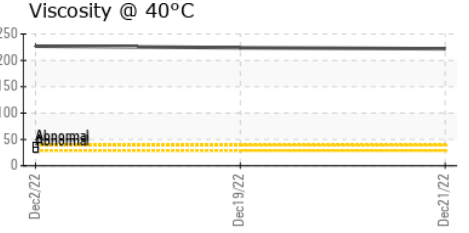
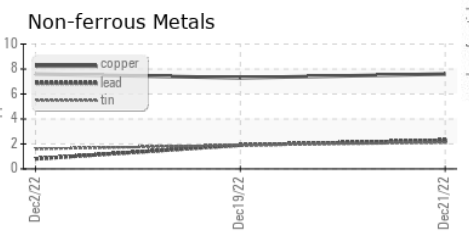
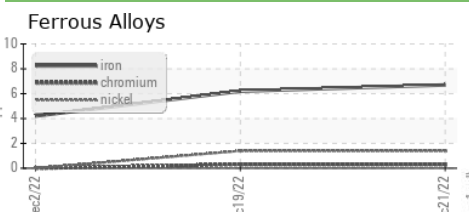
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	222	224	227

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0009577 **Received** : 27 Dec 2022  
**Lab Number** : 05726224 **Diagnosed** : 28 Dec 2022  
**Unique Number** : 10270805 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**PUREFRAC LLC**  
 13216 TX-191  
 MIDLAND, TX  
 US 79707  
 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)