

# **OIL ANALYSIS REPORT**

Sample Rating Trend



FP12E Component
Diesel Engine {not provided} (--- GAL)

Machine Id

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

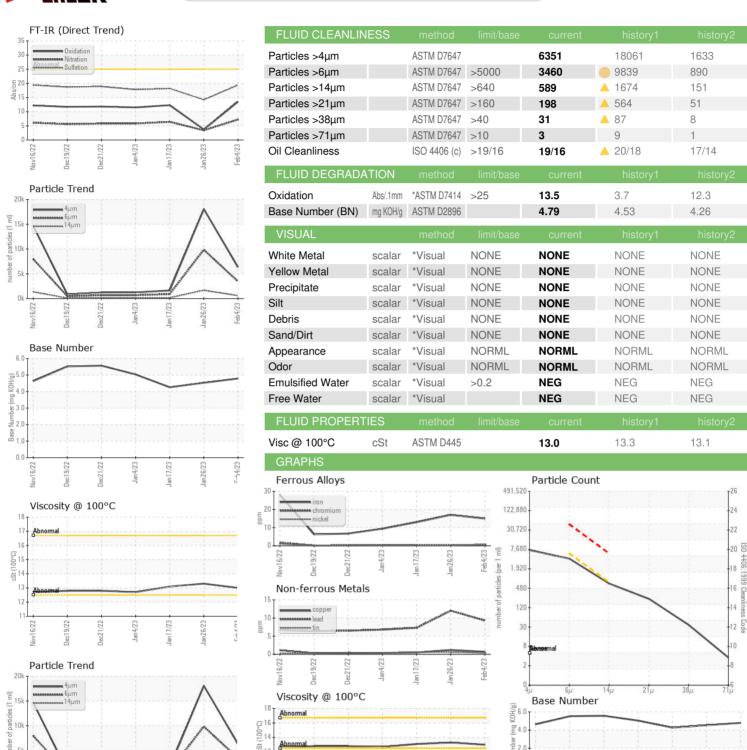
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Nov2022	Dec2022 Dec2022	Jan2023 Jan2023 Jan2023	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0009710	KL0009712	KL0009703
Sample Date		Client Info		04 Feb 2023	26 Jan 2023	17 Jan 2023
Machine Age	hrs	Client Info		21213	21126	20962
Oil Age	hrs	Client Info		1085	0	837
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	17	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
Lead	ppm	ASTM D5185m	>40	9	12	7
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		148	161	171
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		45	50	48
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		195	224	217
Calcium	ppm	ASTM D5185m		1133	1264	1152
Phosphorus	ppm	ASTM D5185m		575	608	612
Zinc	ppm	ASTM D5185m		743	809	791
Sulfur	ppm	ASTM D5185m		2339	2686	2525
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		11	2	2
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.2	3.4	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	14.2	18.2
Janation	/100/.1111111	.1011101110	- 00			



# OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: KL0009710 Lab Number : 05760880 Unique Number: 10325487

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Feb 2023 **Tested** : 08 Feb 2023

0.0 8se

: 08 Feb 2023 - Don Baldridge

Feb4/23

Diagnosed Test Package : MOB 2 ( Additional Tests: PrtCount )

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

**PUREFRAC LLC** 13216 TX-191

MIDLAND, TX US 79707

Contact: Service Manager

T: F: Submitted By: KEVEN BIRCK