

## **OIL ANALYSIS REPORT**

Sample Rating Trend



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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

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.

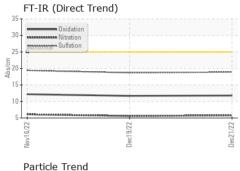
### Fluid Condition

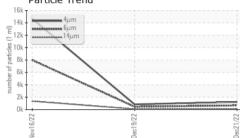
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

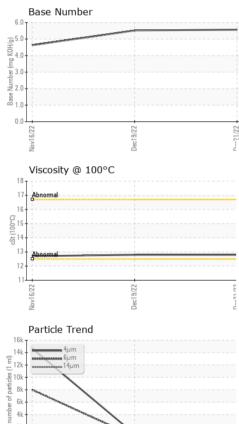
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0009576	KL0009574	KLM2338547
Sample Date		Client Info		21 Dec 2022	19 Dec 2022	16 Nov 2022
Machine Age	hrs	Client Info		20523	20476	20428
Oil Age	hrs	Client Info		395	348	300
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	٨	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	7	6	28
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	2
Lead	ppm	ASTM D5185m	>40	6	6	7
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		230	231	245
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		57	56	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		251	247	250
Calcium	ppm	ASTM D5185m		1181	1167	1194
Phosphorus	ppm	ASTM D5185m		717	710	633
Zinc	ppm	ASTM D5185m		847	838	803
Sulfur	ppm	ASTM D5185m		2680	2648	2381
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	9
Sodium	ppm	ASTM D5185m		2	1	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.6	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.7	19.4



# **OIL ANALYSIS REPORT**





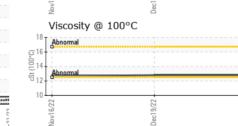


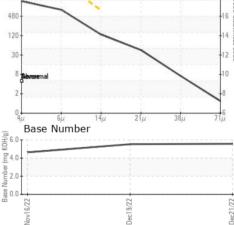
2k

0



Dec21/22







30

Report Id: PURMID [WUSCAR] 05726346 (Generated: 05/01/2024 13:40:17) Rev: 2

Contact/Location: Service Manager - PURMID

PUREFRAC LLC

13216 TX-191

MIDLAND, TX

US 79707

T:

F: