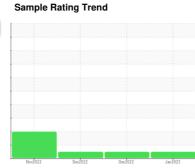


OIL ANALYSIS REPORT

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

DIAGNOSIS

Machine Id

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

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.

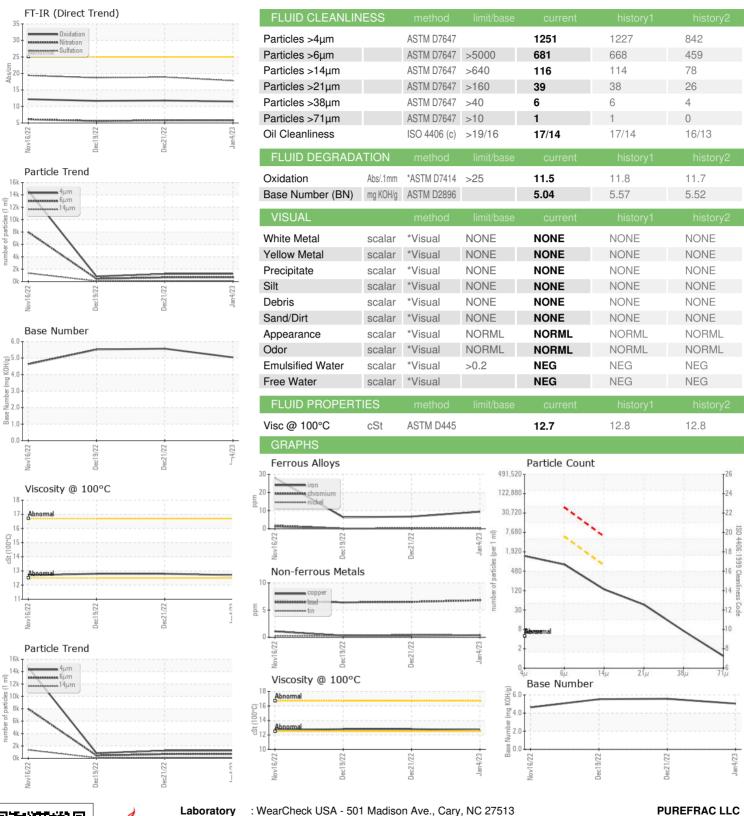
Fluid Condition

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

		Nov202	2 Dec2022	Dec2022 J	an2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0009580	KL0009576	KL0009574
Sample Date		Client Info		04 Jan 2023	21 Dec 2022	19 Dec 2022
Machine Age	hrs	Client Info		20696	20523	20476
Oil Age	hrs	Client Info		571	395	348
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	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	9	7	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	7	6	6
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		221	230	231
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	57	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		257	251	247
Calcium	ppm	ASTM D5185m		1291	1181	1167
Phosphorus	ppm	ASTM D5185m		709	717	710
Zinc	ppm	ASTM D5185m		917	847	838
Sulfur	ppm	ASTM D5185m		2743	2680	2648
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		1	2	1
Potassium	ppm	ASTM D5185m	>20	0	<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	5.8	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.9	18.7



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: KL0009580

Received : 05736300 Unique Number : 10285898

: 11 Jan 2023 **Tested** : 12 Jan 2023 Diagnosed

: 12 Jan 2023 - Wes Davis

13216 TX-191 MIDLAND, TX US 79707 Contact: Service Manager

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

Report Id: PURMID [WUSCAR] 05736300 (Generated: 05/01/2024 13:40:37) Rev: 1

Contact/Location: Service Manager - PURMID

T:

F: