

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.

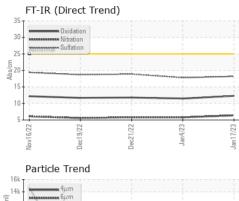
Fluid Condition

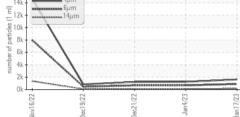
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

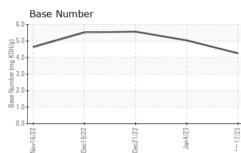
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0009703	KL0009580	KL0009576
Sample Date		Client Info		17 Jan 2023	04 Jan 2023	21 Dec 2022
Machine Age	hrs	Client Info		20962	20696	20523
Oil Age	hrs	Client Info		837	571	395
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	13	9	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	1
Lead	ppm	ASTM D5185m	>40	7	7	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		171	221	230
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		48	59	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		217	257	251
Calcium	ppm	ASTM D5185m		1152	1291	1181
Phosphorus	ppm	ASTM D5185m		612	709	717
Zinc	ppm	ASTM D5185m		791	917	847
Sulfur	ppm	ASTM D5185m		2525	2743	2680
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m	00	2	1	2
Potassium	ppm	ASTM D5185m		2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.5	0.3	0.3
Nitration	Abs/cm	*ASTM D7624		6.4	5.8	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	17.8	18.9

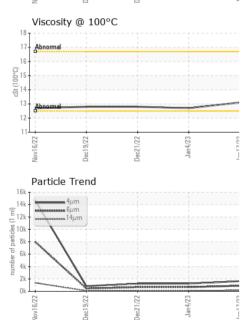


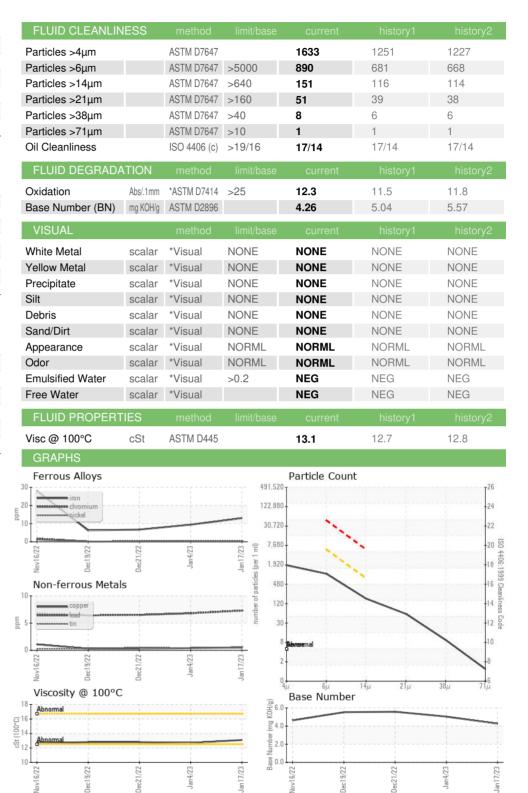
OIL ANALYSIS REPORT











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PUREFRAC LLC Sample No. : KL0009703 Received : 19 Jan 2023 13216 TX-191 Lab Number Tested : 20 Jan 2023 MIDLAND, TX : 05743674 Unique Number : 10298273 Diagnosed : 21 Jan 2023 - Don Baldridge US 79707 Test Package : MOB 2 (Additional Tests: PrtCount) Contact: Service Manager Certificate 12367 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PURMID [WUSCAR] 05743674 (Generated: 05/01/2024 13:40:47) Rev: 2

Contact/Location: Service Manager - PURMID

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