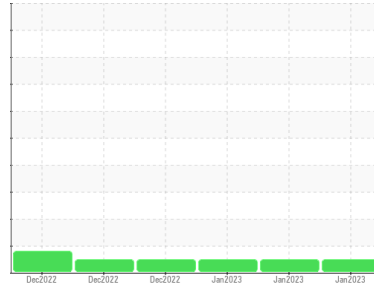




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
FP-12 POWER END
 Component
Pump
 Fluid
GEAR OIL LS 80W90 (--- 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	history1	history2
Sample Number	Client Info			KL0009711	KL0009704	KL0009581
Sample Date	Client Info			26 Jan 2023	17 Jan 2023	04 Jan 2023
Machine Age	hrs	Client Info		21126	20962	20696
Oil Age	hrs	Client Info		0	1143	877
Oil Changed	Client Info			N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	13	11	7
Chromium	ppm	ASTM D5185m	>7	<1	<1	<1
Nickel	ppm	ASTM D5185m		4	1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>35	5	4	3
Copper	ppm	ASTM D5185m	>50	15	10	9
Tin	ppm	ASTM D5185m	>5	3	2	2
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	150	9	10	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	10	73	67	41
Calcium	ppm	ASTM D5185m	70	301	298	198
Phosphorus	ppm	ASTM D5185m	2000	292	266	236
Zinc	ppm	ASTM D5185m	50	149	151	93
Sulfur	ppm	ASTM D5185m	20000	10407	8442	10661

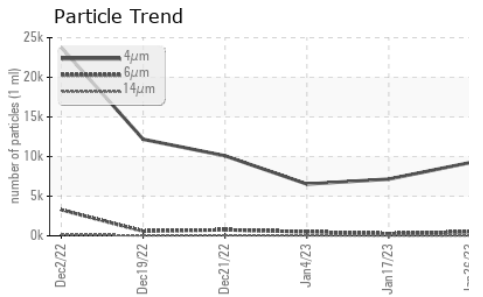
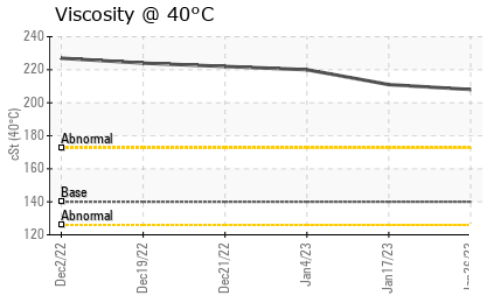
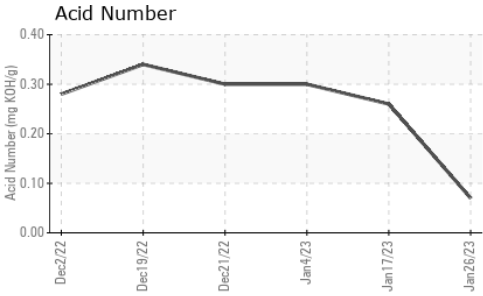
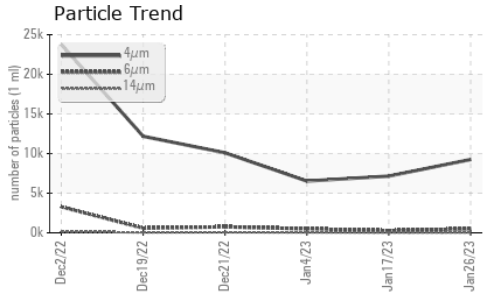
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	1	<1
Sodium	ppm	ASTM D5185m		22	20	10
Potassium	ppm	ASTM D5185m	>20	<1	1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9251	7156	6530
Particles >6µm		ASTM D7647	>1300	513	279	505
Particles >14µm		ASTM D7647	>160	22	15	43
Particles >21µm		ASTM D7647	>40	8	3	11
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/14	16/12	15/11	16/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.07	0.26	0.30



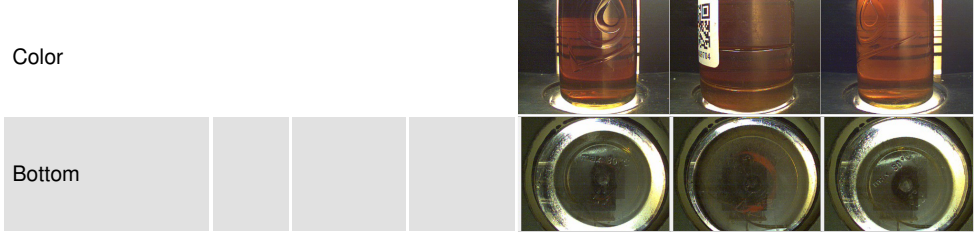
OIL ANALYSIS REPORT



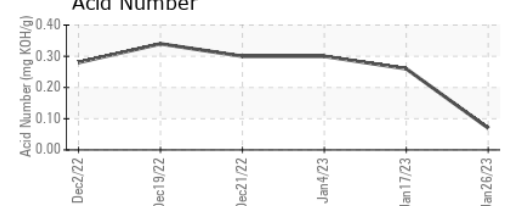
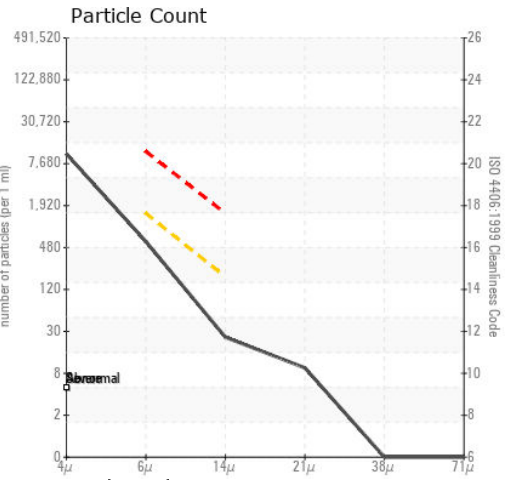
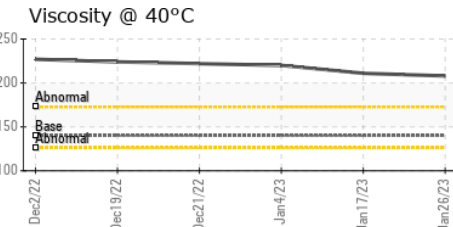
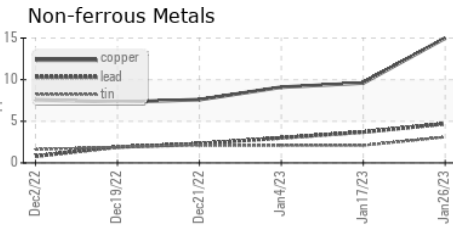
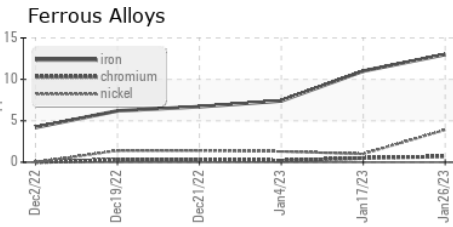
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history1	history2
Visc @ 40°C	cSt	ASTM D445 140	208	211	220

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0009711 **Received** : 01 Feb 2023
Lab Number : 05755795 **Tested** : 01 Feb 2023
Unique Number : 10320402 **Diagnosed** : 01 Feb 2023 - Doug Bogart
Test Package : MOB 2 (Additional Tests: PrtCount)

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

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)