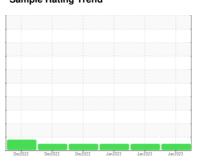


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **FP-12 POWER END**

Component **Pump**

GEAR OIL LS 80W90 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

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.

		Dec2022	Dec2022 Dec2022	2 Jan2023 Jan2023	Jan 2023	
SAMPLE INFORM	IATION	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	J	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 CLEANLIN	ESS	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 DEGRADA	TION	method	limit/base	current	history1	history2
A si al Niversala a v. (ANI)	I/OII/-	ACTM DODAE		0.07	0.00	0.20

Acid Number (AN)

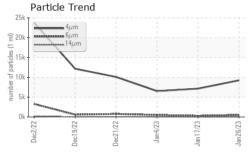
mg KOH/g ASTM D8045

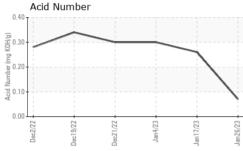
0.26

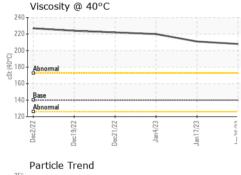
0.30 Contact/Location: Service Manager - PURMID

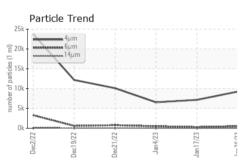


OIL ANALYSIS REPORT







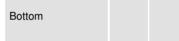


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLID BROBERTIES		mothod	limit/bass	ourropt	hioton/1	hiotory?

I LOID I HOI LITT	ILO	memou			Thistory i	HISTOLYZ
Visc @ 40°C	cSt	ASTM D445	140	208	211	220

Color

SAMPLE IMAGES





	GRAPHS										
15	Ferrous Alloy	S				Particle Count					
10	iron					122,880				T ²⁶	
mdd 5	accessors NICKEI				and the same of	30,720-				-22	
0	22	22	23	23	Z3	7,680	1			-20 IS	
	Dec2/22	Dec21/22	Jan4/23	Jan17/23	Jan26/23	1,920-	1			-18 :1999 Cleanliness Code	
15	Non-ferrous I	Metals			nari-	480-	1.			99 Clear	
10	copper				on mper of	120-	1			-14 liness (
mdd 5	announcement tin				ē	30-				-12 g	
0	7727 Maria Company		************	PROPERTY OF STREET	Andreas and Andrea	8 Sibrese ma				-10	
	Dec2/22	Dec21/22	Jan4/23	Jan17/23	Jan26/23	2+				-8	
	Viscosity @ 4	_	7	P	- P	0 _{4µ}	6μ Number	14μ 21μ	38μ	71 _µ 6	
250							Number				
(200 (200 (300 (300 (300 (300 (300 (300	Abnormal					0.00 Wmper (mg KOH/g)					
ৰ্ন্থ 150	- Base Sabnonnal					0.10					
100	727		/23	723	723	Acid	722	727	723	73	
	Dec2/22	Dec21/22	Jan4/23	Jan17/23	Jan26/23	Dec2/22	Dec19/22	Dec21/22	Jan4/23 Jan17/23	Jan 26/23	





Laboratory Sample No.

Lab Number : 05755795

: KL0009711 Unique Number : 10320402

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Feb 2023 **Tested**

: 01 Feb 2023 Diagnosed

: 01 Feb 2023 - Doug Bogart

PUREFRAC LLC 13216 TX-191 MIDLAND, TX US 79707

Contact: Service Manager

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

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

T: F: