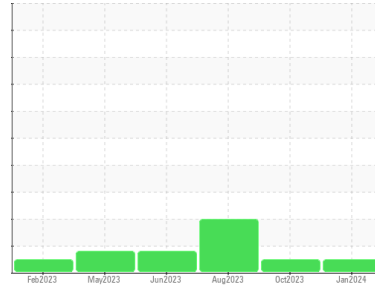




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
TS03-03

Component
Hydraulic System

Fluid
CHEVRON RANDO HD 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are 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			PH0000989	PH0000988	PH0000986
Sample Date	Client Info			15 Jan 2024	19 Oct 2023	25 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	4	5	5
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

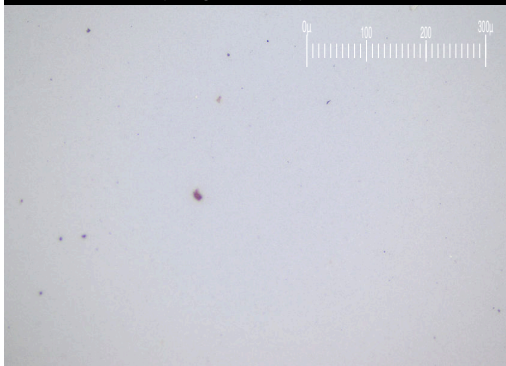
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	3	2
Calcium	ppm	ASTM D5185m		40	41	46
Phosphorus	ppm	ASTM D5185m		316	308	329
Zinc	ppm	ASTM D5185m		390	397	406
Sulfur	ppm	ASTM D5185m		688	766	860

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	1042	1579	▲ 84250	
Particles >6µm	ASTM D7647	>2500	204	284	▲ 9541	
Particles >14µm	ASTM D7647	>320	23	19	▲ 477	
Particles >21µm	ASTM D7647	>80	7	6	▲ 190	
Particles >38µm	ASTM D7647	>20	0	0	18	
Particles >71µm	ASTM D7647	>4	0	0	1	
Oil Cleanliness	ISO 4406 (c)	>20/18/15	17/15/12	18/15/11	▲ 24/20/16	

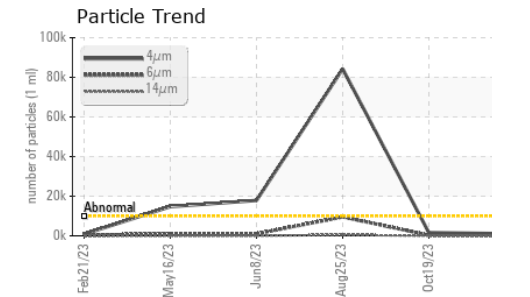
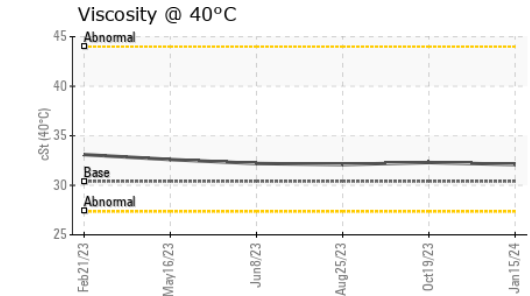
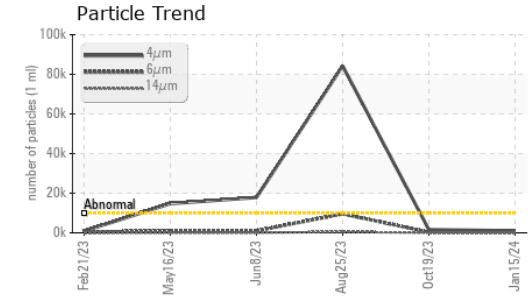
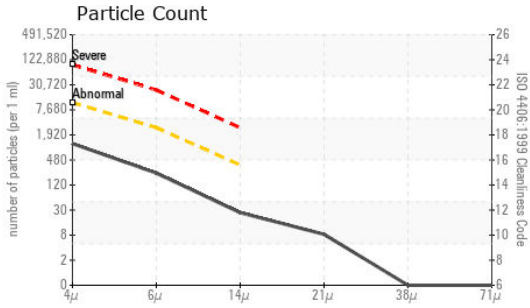
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.42	0.40

Particle Filter (Magn: 200 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0000989 **Received** : 19 Jan 2024
Lab Number : 06065583 **Diagnosed** : 23 Jan 2024
Unique Number : 10836965 **Diagnostician** : Angela Borella
Test Package : PLANT (Additional Tests: PrtFilter)

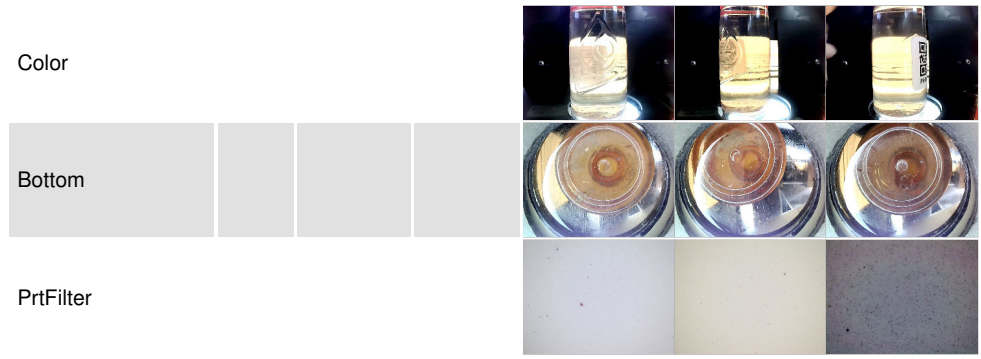
PARKER HANNIFIN - PLYMOUTH
 900 PLYMOUTH RD
 PLYMOUTH, MI
 US 48170
 Contact: Helu Wodaje
 Heletwork.Wodaje@parker.com
 T:
 F:

Certificate L2367
 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)

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	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.4	32.1	32.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS

