

Machine Id
ROOTS 2ND STAGE BLOWER A
 Component
Compressor
 Fluid
CHEVRON CLARITY SYNTHETIC PMO ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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		TO60002358	TO60001071	TO60001102
Sample Date	Client Info		04 Apr 2024	02 Oct 2023	07 Sep 2023
Machine Age	hrs	Client Info	41934	37559	36970
Oil Age	hrs	Client Info	29040	25254	26013
Oil Changed	Client Info		Oil Added	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	2	4	5
Chromium	ppm	ASTM D5185m >5	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >15	0	0	0
Lead	ppm	ASTM D5185m >65	0	0	0
Copper	ppm	ASTM D5185m >65	0	<1	0
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

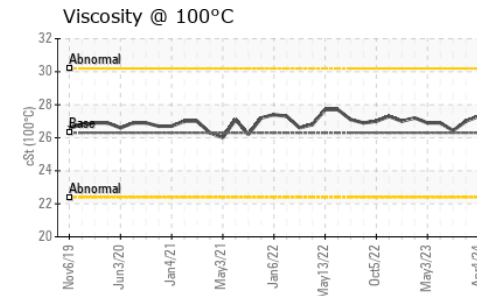
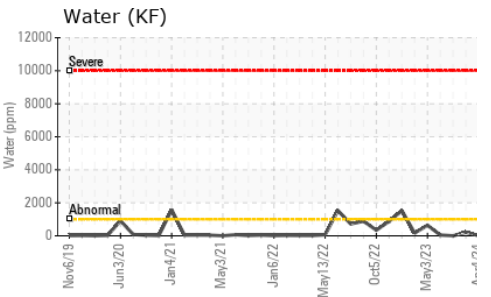
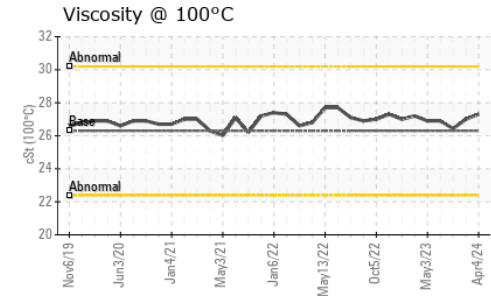
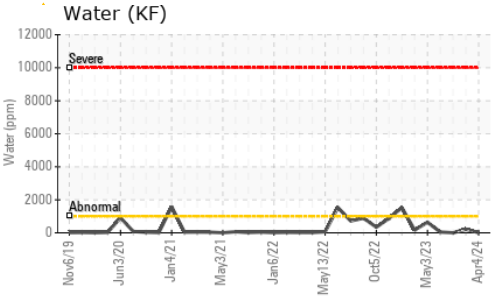
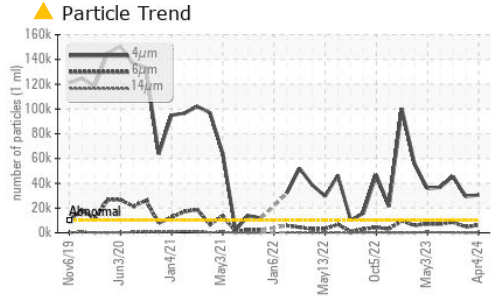
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	0	0	<1
Calcium	ppm	ASTM D5185m	0	0	<1
Phosphorus	ppm	ASTM D5185m	32	20	28
Zinc	ppm	ASTM D5185m	1	0	8
Sulfur	ppm	ASTM D5185m	2847	2706	3243

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	5	0	1
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	0	0	1
Water	%	ASTM D6304 >0.1	0.001	0.021	0.00
ppm Water	ppm	ASTM D6304 >1000	12	215.9	0.00

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 30594	▲ 29372	▲ 45596
Particles >6µm	ASTM D7647	>2500	▲ 6234	▲ 4765	▲ 8508
Particles >14µm	ASTM D7647	>320	215	132	292
Particles >21µm	ASTM D7647	>80	29	27	43
Particles >38µm	ASTM D7647	>20	1	3	1
Particles >71µm	ASTM D7647	>4	0	2	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/20/15	▲ 22/19/14	▲ 23/20/15

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.22	0.156	0.18

OIL ANALYSIS REPORT



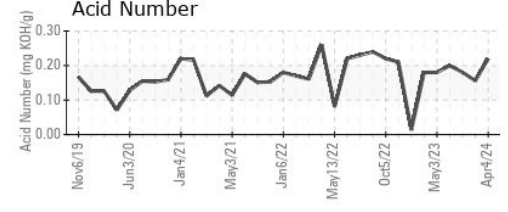
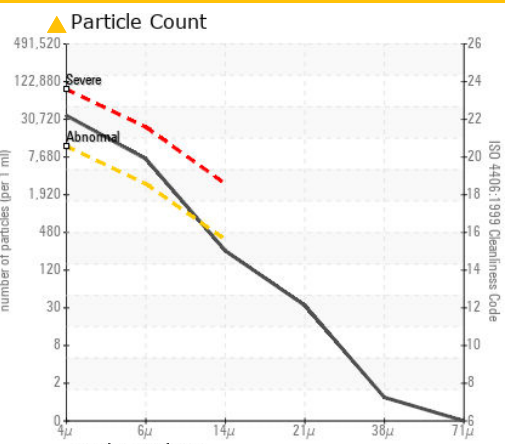
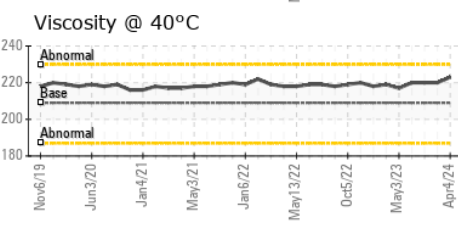
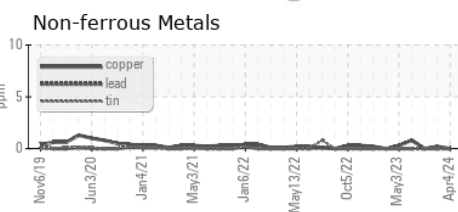
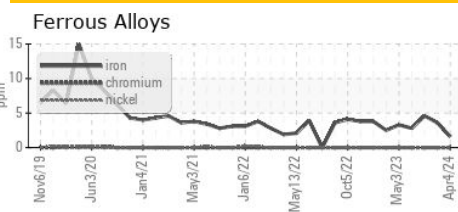
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	209	220	220
Visc @ 100°C	cSt	ASTM D445	26.3	27.0	26.43
Viscosity Index (VI)	Scale	ASTM D2270	160	157	153

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002358 **Received** : 16 Apr 2024
Lab Number : 06151238 **Tested** : 19 Apr 2024
Unique Number : 10981316 **Diagnosed** : 19 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)