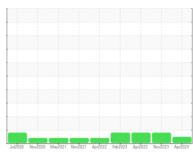


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 9F Component Gearbox

TEXACO REGAL OIL R&O 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

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.

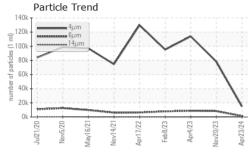
Fluid Condition

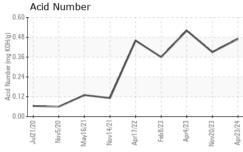
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

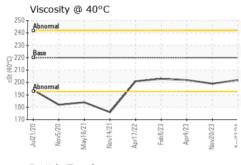
		Jul2020 Nov	2020 May2021 Nov2021	Apr2022 Feb2023 Apr2023 Nov20	123 Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913470	WC0820993	WC0757286
Sample Date		Client Info		23 Apr 2024	20 Nov 2023	04 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	50	54	62
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	2	3
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2 2
	ppm ppm					·
Boron	• •	ASTM D5185m	0	0	2	2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	0 0	2	2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	0 0 0	2 0 <1 <1 5	2 0 <1 <1 3
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 0	2 0 <1 <1 5 19	2 0 <1 <1 3 19
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 0 0 1 15 207	2 0 <1 <1 5	2 0 <1 <1 3 19 224
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 0	0 0 0 0 1 15 207	2 0 <1 <1 5 19 216 6	2 0 <1 <1 3 19 224
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 0 0 0 4046	0 0 0 0 1 15 207	2 0 <1 <1 5 19 216	2 0 <1 <1 3 19 224
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 0 0 0 4046 limit/base	0 0 0 0 1 15 207 17 7352	2 0 <1 <1 5 19 216 6 6833 history1	2 0 <1 <1 3 19 224 15 6803 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 0 0 0 0 4046 limit/base	0 0 0 0 1 15 207 17 7352 current	2 0 <1 <1 5 19 216 6 6833 history1	2 0 <1 <1 3 19 224 15 6803 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 0 0 4046 limit/base	0 0 0 0 1 15 207 17 7352 current 4	2 0 <1 <1 5 19 216 6 6833 history1	2 0 <1 <1 3 19 224 15 6803 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 0 0 4046 limit/base >50	0 0 0 0 1 15 207 17 7352 current	2 0 <1 <1 5 19 216 6 6833 history1	2 0 <1 <1 3 19 224 15 6803 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 0 0 4046 limit/base	0 0 0 0 1 15 207 17 7352 current 4 <1 0	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	0 0 0 0 0 0 0 4046 limit/base >50 	0 0 0 0 1 15 207 17 7352 current 4 <1 0	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 78196	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m	0 0 0 0 0 0 0 4046 limit/base >50 >20	0 0 0 1 15 207 17 7352 current 4 <1 0 current 15128 1363	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 history1 78196 8277	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	0 0 0 0 0 0 0 4046 limit/base >50 >20 limit/base	0 0 0 0 1 15 207 17 7352 current 4 <1 0 current 15128 1363 168	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 history1 78196 8277 153	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2 113875 8789 109
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 0 0 4046 limit/base >50 >20 limit/base	0 0 0 1 15 207 17 7352 current 4 <1 0 current 15128 1363 168 24	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 history1 78196 8277 153 25	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2 113875 8789 109 13
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 0 0 4046 limit/base >50 >20 limit/base >5000 >640 >160 >40	0 0 0 1 15207 17 7352 current 4 <1 0 current 15128 1363 168 24 0	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 history1 78196 8277 153 25 2	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2 113875 8789 109 13 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 0 0 4046 limit/base >50 >20 limit/base >5000 >640 >160 >40	0 0 0 0 1 15207 17 7352 current 4 <1 0 current 15128 1363 168 24 0 0	2 0	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2 113875 8789 109 13 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 0 0 4046 limit/base >50 >20 limit/base >5000 >640 >160 >40	0 0 0 1 15207 17 7352 current 4 <1 0 current 15128 1363 168 24 0	2 0 <1 <1 5 19 216 6 6833 history1 11 <1 1 history1 78196 8277 153 25 2	2 0 <1 <1 3 19 224 15 6803 history2 12 0 <1 history2 113875 8789 109 13 1

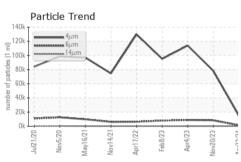


OIL ANALYSIS REPORT









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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/hasa	current	history1	history2

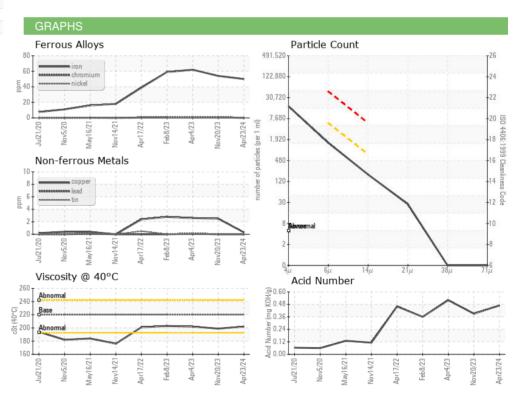
FLUID PROPERTIES		method			history1	history2
Visc @ 40°C	cSt	ASTM D445	220	202	199	202

Color

Bottom











Certificate 12367

Laboratory Sample No.

Lab Number : 06159077 Unique Number : 10994500

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0913470

Received : 24 Apr 2024 **Tested** : 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

1301 WEST MAGNOLIA AVE IOWA PARK, TX

US 76367 Contact: KEVIN KETCHERSID kevin.a.ketchersid@sealedair.com

SEALED AIR CORP - CRYOVAC DIVISION

Test Package : IND 2 (Additional Tests: PrtCount) 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)

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