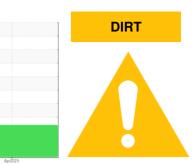


OIL ANALYSIS REPORT

Sample Rating Trend



Left Final Drive

CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Area [20512] Machine Id

30-42

A Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

🛑 Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

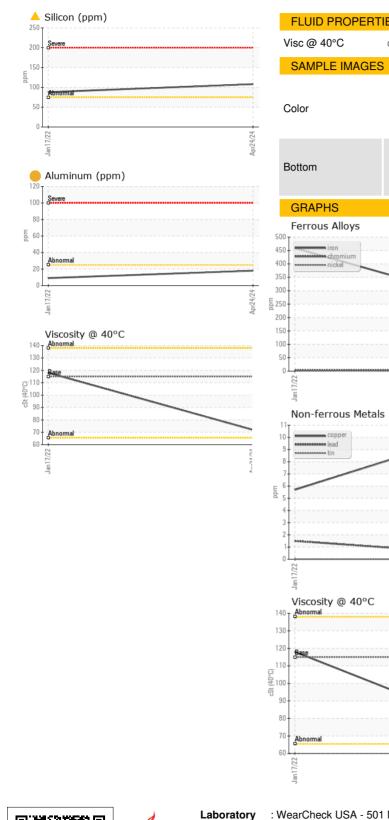
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923348	WC0619485	
Sample Date		Client Info		24 Apr 2024	17 Jan 2022	
Machine Age	hrs	Client Info		4709	3845	
Oil Age	hrs	Client Info		864	500	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	243	459	
Chromium	ppm	ASTM D5185m	>10	2	4	
Nickel	ppm	ASTM D5185m	>10	0	2	
Fitanium	ppm	ASTM D5185m		2	1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	18	9	
ead	ppm	ASTM D5185m	>25	<1	2	
Copper	ppm	ASTM D5185m	>50	11	6	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
/anadium	ppm	ASTM D5185m	20	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	62	24	
Barium	ppm	ASTM D5185m		1	0	
/lolybdenum	ppm	ASTM D5185m		16	3	
		ASTM D5185m		2	3	
Manganese	ppm	AGTIVI DUTUUIII				
0	ppm ppm	ASTM D5185m	350	391	81	
/lagnesium			350 1800	391 1233	81 624	
Aagnesium Calcium	ppm	ASTM D5185m				
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1800	1233	624	
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000	1233 754	624 492	
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100	1233 754 783	624 492 328	
Aagnesium Dalcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100 3500 limit/base	1233 754 783 4927	624 492 328 12951	
Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100 3500 limit/base	1233 754 783 4927 current	624 492 328 12951 history1	 history2
Agnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1800 1000 1100 3500 limit/base	1233 754 783 4927 <u>current</u> ▲ 108	624 492 328 12951 history1 ▲ 88	 history2
Agnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100 3500 limit/base >75	1233 754 783 4927 current ▲ 108 4	624 492 328 12951 history1 ▲ 88 1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100 3500 limit/base >75 >20	1233 754 783 4927 <u>current</u> ▲ 108 4 4	624 492 328 12951 ▲ 88 1 2	 history2
Agnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL Vhite Metal	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1800 1000 1100 3500 limit/base >75 >20 limit/base	1233 754 783 4927 current ▲ 108 4 4 4	624 492 328 12951 history1 ▲ 88 1 2 kistory1	 history2 history2
Agnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL Vhite Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m	1800 1000 1100 3500 limit/base >75 >20 limit/base NONE	1233 754 783 4927 Current ▲ 108 4 4 4 Current MODER	624 492 328 12951 history1 88 1 2 history1 NONE	 history2 history2
Vagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL Vhite Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	1800 1000 1100 3500 limit/base >75 >20 limit/base NONE NONE	1233 754 783 4927	624 492 328 12951 ▲ 88 1 2 <u>history1</u> A NONE NONE	 history2 history2 history2
Aagnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL Vhite Metal Vellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	1800 1000 1100 3500 iimit/base >75 >20 iimit/base NONE NONE NONE NONE	1233 754 783 4927	624 492 328 12951 ▲ 88 1 2 <u>history1</u> ANONE NONE NONE NONE	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	1800 1000 1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE	1233 754 783 4927	624 492 328 12951	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1800 1000 1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE	1233 754 783 4927 Current 108 4 4 4 Current MODER NONE NONE NONE NONE NONE NONE	624 492 328 12951 history1 ▲ 88 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal VISUAL Vhite Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1800 1000 1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	1233 754 783 4927 Current 108 4 4 4 4 Current MODER NONE NONE NONE NONE NONE NONE NONE NO	624 492 328 12951 history1 ▲ 88 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 -
Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1800 1000 1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE	1233 754 783 4927 Current 108 4 4 4 Current MODER NONE NONE NONE NONE NONE NONE	624 492 328 12951 history1 ▲ 88 1 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2



OIL ANALYSIS REPORT



	FLUID PROPERT	T <mark>IES</mark> me	thod limit	/base currer	nt history1	history2
	Visc @ 40°C	cSt ASTN	/ID445 115	71.9	118	
	SAMPLE IMAGES	S me	thod limit	/base currer	nt history1	history2
4	Color			no image	e no image	no image
Apr24/24	Bottom			no image	e no image	no image
	GRAPHS					
A-24/24	Ferrous Alloys	s	Apr24/24			
	Viscosity @ 40°C		Apr24/24			
poratory	200 30 40 20 40 20 40 20 40 20 40 20 40 20 40 20 40 20 40 40 40 40 40 40 40 40 40 4	1 Madison Ave	+2/+2/dy	7513 N	IANHATTAN ROA	D AND BRIDGE
mple No. b Number	: WC0923348 : <mark>06207220</mark> : 11074681	Received Tested Diagnosed	: 11 Jun 2 : 13 Jun 2 : 13 Jun 20	024	5601	S 122ND E AVE TULSA, OK US 74146 BEN CALDWELL

Certificate 12367 Test Package : CONST 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)

Submitted By: JAMES STEELMON

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