

OIL ANALYSIS REPORT

Sample Rating Trend



Area [20512] 30-97 Component Left Final Drive Fluid CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

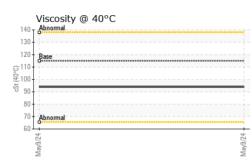
Fluid Condition

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

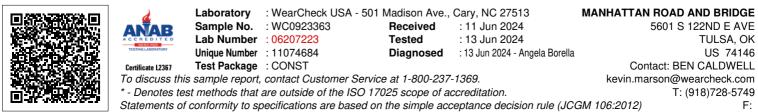
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923363		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		1202		
Oil Age	hrs	Client Info		1202		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	71		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	16		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	<1		
Barium	ppm	ASTM D5185m		5		
Molybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	350	15		
Calcium	ppm	ASTM D5185m	1800	4147		
Phosphorus	ppm	ASTM D5185m	1000	894		
	ppm ppm	ASTM D5185m ASTM D5185m	1000 1100	894 1023		
Phosphorus Zinc Sulfur						
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m	1100	1023		
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method	1100 3500	1023 6332		
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method	1100 3500 limit/base	1023 6332 current		
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1100 3500 limit/base >75	1023 6332 current 30	 history1 	
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1100 3500 limit/base >75	1023 6332 current 30 2	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	1100 3500 imit/base >75 >20 imit/base NONE	1023 6332 current 30 2 0 current NONE	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	1100 3500 imit/base >75 >20 imit/base NONE NONE	1023 6332 current 30 2 0 current NONE NONE	 history1 history1	history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual	1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE	1023 6332 current 30 2 0 current NONE NONE NONE	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	1100 3500 imit/base >75 >20 imit/base NONE NONE	1023 6332 current 30 2 0 current NONE NONE NONE NONE	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	1100 3500 Imit/base >75 >20 Imit/base NONE NONE NONE NONE NONE NONE	1023 6332 current 30 2 0 current NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	1100 3500 Imit/base >75 >20 Imit/base NONE NONE NONE NONE	1023 6332 current 30 2 0 current NONE NONE NONE NONE	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	1023 6332 current 30 2 0 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	1100 3500 3500 275 20 220 1000 1000 1000 1000 1000 1000 1	1023 6332 current 30 2 0 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1100 3500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	1023 6332 current 30 2 0 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2



OIL ANALYSIS REPORT



SAMPLE IMAGES	nethod	limit/base	current no image no image	history1 no image	history2 no image
Copper lead					
Copper lead					
GRAPHS Ferrous Alloys			no image	no image	no image
GRAPHS Ferrous Alloys			no image	no image	no image
Ferrous Alloys					
Ferrous Alloys					
iron iron nickel 100 100 100 100 100 100 100 10					
Non-ferrous Metals					
Non-ferrous Metals					
Non-ferrous Metals					
Non-ferrous Metals					
Non-ferrous Metals					
Non-ferrous Metals					
Non-ferrous Metals		Ma			
copper					
lead					
•					
	 	1			
May9/24		May9/24			
Viscosity @ 40°C					
Base	 				
Abnormal	 				
		24			
May9/24		May9/24			



Submitted By: JAMES STEELMON

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