

OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR 306CR 116

Component Hydraulic System Fluid

PETRO CANADA 10W (--- GAL)

DIAGNOSIS

Recommendation

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.

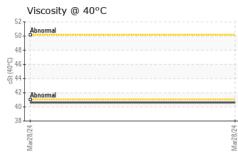
Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0906202		
Sample Date		Client Info		28 Mar 2024		
Machine Age	hrs	Client Info		329		
Oil Age	hrs	Client Info		329		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
				12		niotory2
Iron	ppm	ASTM D5185m	>20			
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	10	<1		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m	>10	2		
Copper	ppm	ASTM D5185m	>75	24		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m		204		
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		204 993		
				-		
Phosphorus	ppm	ASTM D5185m		993		
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	993 1207		
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	993 1207 2545		
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		993 1207 2545 current	 history1	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>20	993 1207 2545 current <1	 history1	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>20	993 1207 2545 current <1 <1	 history1	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>20 >20	993 1207 2545 current <1 <1 3	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20 limit/base	993 1207 2545 current <1 <1 3 current	 history1 history1	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>20 >20 limit/base NONE	993 1207 2545 current <1 <1 3 current NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>20 >20 limit/base NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 Iinit/base NONE NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Sodium Sodium Potassium VISUAL VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm 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	>20 >20 limit/base NONE NONE NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Sodium Potassium Potassium VISUAL VISUAL Vhite Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm scalar 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	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Sodium Potassium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm scalar 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 *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	993 1207 2545 current <1 <1 <1 3 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	 history1 history1 -	 history2 history2



OIL ANALYSIS REPORT



	FLUID PROPER Visc @ 40°C		method ASTM D445	limit/base	current 40.6	history1	history2
	SAMPLE IMAGE		method	limit/base	current	history1	history2
	SAMPLE IMAGE	_0	memou		Current	Thistory	Thistoryz
	Color				no image	no image	no image
24							
Mar28/24							
	Bottom				no image	no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	40 Severe			3	0 		
	30 -			2			
	Abnormal			-	5		
	10-			1	0 - Abnormal		
	0				5		
	- Mar28/24			Mar28/24	Mar28/24		
				Mari			
	Aluminum (ppm)			3	Chromium (p	pm)	
	25 - Severe			2	5 - Severe		
	20- E 15			2 E			
	E 15 - 10 - Abnormal				Abnemal		
	5-				5-		
	0 24 10				24		
	Mar28/24			Mar28/24	Mar28/24		
	Copper (ppm)				Silicon (ppm)		
	250 - Severe			6	Courses		
	150			4			
	E 100			E 3	Abnemal		
	50			2			
	0			_	0		
	Mar28/24			Mar28/24	Mar28/24		
	≥ Viscosity @ 40°C			2	≥ Additives		
	52 50 Abnormal			140		1	
	48			120	annananan phosphor		
	(J-046 			ق 80			
	42 Abnormal			60	0		
	40			40			
	Mar28/24 -			Mar28/24 -	Mar28/24 -		
	Ma			Ma	Ma		
Laboratory	: WearCheck USA - 50	01 Madison	Ave., Carv.	NC 27513		C.L. BENTO	N & SONS II
Sample No.	: WC0906202	Receiv	ed : 10	Apr 2024		70	06 38TH AVE
Lab Number Unique Number		Tested Diagno		Apr 2024 Apr 2024 - Dor	Baldridge	MYRT	LE BEACH, S US 295
12367 Test Package	: MOB 1	-					Contact: NE
nuce this comple report	, contact Customer Ser	vice at 1-80	0-237-1369			neil	@clbenton.co

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Contact/Location: NEIL ? - CLBMYR

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