

OIL ANALYSIS REPORT

Sample Rating Trend





920005 Component Diesel Engine Fluid

Machine Id

PETRO CANADA 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

🔺 Wear

Piston, ring and cylinder wear is indicated. Valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

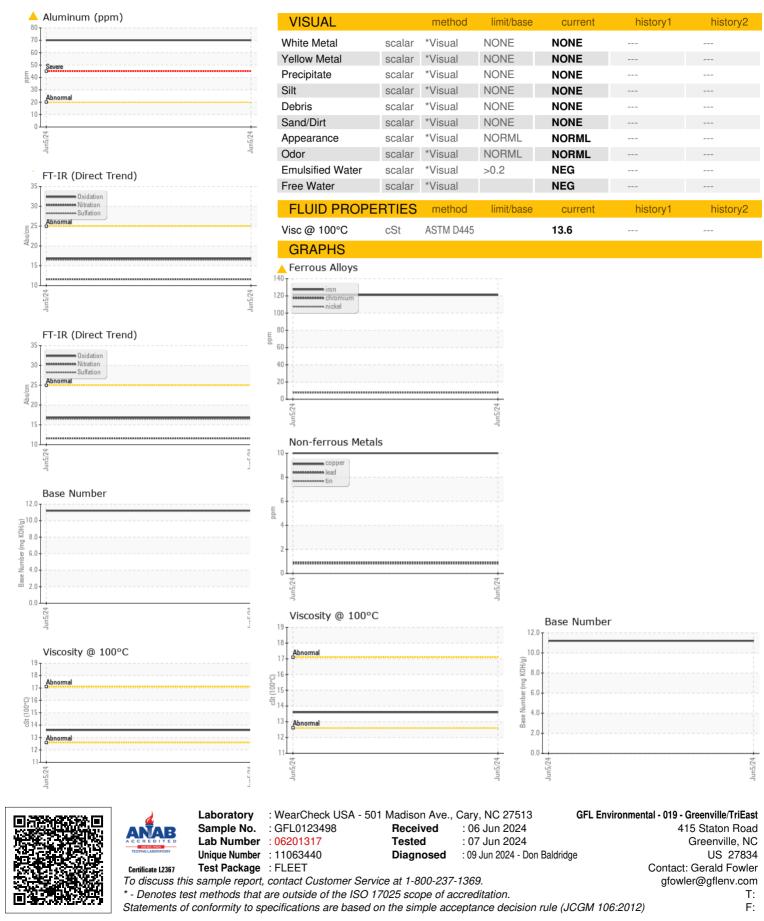
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123498		
Sample Date		Client Info		05 Jun 2024		
Machine Age	hrs	Client Info		26185		
Dil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	8		
Nickel	ppm	ASTM D5185m	>5	<u> </u>		
Fitanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	10		
īn	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9		
Barium	ppm	ASTM D5185m		1		
Nolybdenum	ppm	ASTM D5185m		64		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm					
	ppin	ASTM D5185m		838		
Calcium	ppm	ASTM D5185m ASTM D5185m		838 1088		
Phosphorus	ppm	ASTM D5185m		1088	 	
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		1088 957		
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1088 957 1196		
Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	1088 957 1196 3267		
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		1088 957 1196 3267 current		
Phosphorus Zinc Sulfur CONTAMINAN [®] Silicon Sodium	ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		1088 957 1196 3267 current 14	 history1	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	1088 957 1196 3267 <u>current</u> 14 17	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	1088 957 1196 3267 current 14 17 9	 history1 	 history2
Phosphorus Zinc Sulfur CONTAMINAN [®] Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base	1088 957 1196 3267 current 14 17 9 current	 history1 history1	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN [®] Silicon Sodium Potassium	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base >4	1088 957 1196 3267 current 14 17 9 current 0.8	 history1 history1	 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Vitration	ppm ppm ppm ppm TS ppm ppm ppm ppm ppm % Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >4 >20	1088 957 1196 3267 current 14 17 9 current 0.8 11.6	 history1 history1	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Vitration Sulfation	ppm ppm ppm ppm TS ppm ppm ppm ppm ppm % Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7845	>25 >20 limit/base >4 >20 >30	1088 957 1196 3267 current 14 17 9 current 0.8 11.6 16.5	 history1 history1 history1	 history2 history2 history2



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