

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 912026

Fluid

Component **Diesel Engine**

PETRO CANADA DURON

	- LTR)					
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090433	GFL0090425	GFL0086305
Sample Date		Client Info		21 Aug 2023	02 Aug 2023	13 Jul 2023
Machine Age	hrs	Client Info		5623	5497	5345
Dil Age	hrs	Client Info		858	732	0
Dil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
		method	limit/base	-	-	-
Fuel	UN		>3.0	current	history1	history2 <1.0
	2					
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	4	3	10
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	<1	2
Гin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	<1	3
Barium	ppm	ASTM D5185m	0	0	0	<1
Volybdenum	ppm	ASTM D5185m	60	79	58	61
Vanganese	ppm	ASTM D5185m	0	<1	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	960	1004	982
Calcium	ppm	ASTM D5185m	1070	1135	1071	1087
Phosphorus	ppm	ASTM D5185m	1150	1088	000	
	pp			1000	990	991
Zinc	ppm	ASTM D5185m	1270	1344	990 1288	991 1271
-		ASTM D5185m ASTM D5185m				
-	ppm ppm		1270	1344	1288	1271
Sulfur CONTAMINAN	ppm ppm	ASTM D5185m method	1270 2060	1344 3962	1288 3636	1271 3207
Sulfur CONTAMINAN Silicon	ppm ppm TS	ASTM D5185m method	1270 2060 limit/base	1344 3962 current	1288 3636 history1	1271 3207 history2
Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm	ASTM D5185m method ASTM D5185m	1270 2060 limit/base	1344 3962 current 3	1288 3636 history1 3	1271 3207 history2 3
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	1270 2060 limit/base >25	1344 3962 current 3 24	1288 3636 history1 3 2	1271 3207 history2 3 4
Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1270 2060 limit/base >25	1344 3962 current 3 24 42	1288 3636 history1 3 2 2 2	1271 3207 history2 3 4 1
Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982	1270 2060 limit/base >25 >20	1344 3962 current 3 24 42 NEG	1288 3636 history1 3 2 2 2 NEG	1271 3207 history2 3 4 1 NEG
Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm TS ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method	1270 2060 <i>limit/base</i> >25 >20 <i>limit/base</i> >4	1344 3962 current 3 24 42 NEG current	1288 3636 history1 3 2 2 NEG history1	1271 3207 history2 3 4 1 NEG history2
Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	1270 2060 <i>limit/base</i> >25 >20 <i>limit/base</i> >4	1344 3962 current 3 24 42 NEG current 0.1	1288 3636 history1 3 2 2 NEG history1 0.2	1271 3207 history2 3 4 1 NEG history2 0.6
Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm TS ppm ppm ppm % %	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624	1270 2060 >25 >20 >20 imit/base >4 >20	1344 3962 current 3 24 42 NEG current 0.1 4.6	1288 3636 history1 3 2 2 NEG NEG history1 0.2 5.4	1271 3207 history2 3 4 1 NEG history2 0.6 8.4
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm TS ppm ppm ppm % %	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624	1270 2060 >25 >20 >20 <u>limit/base</u> >4 >20 >30	1344 3962 current 3 24 42 NEG current 0.1 4.6 17.0	1288 3636 history1 3 2 2 NEG history1 0.2 5.4 17.7	1271 3207 history2 3 4 1 NEG history2 0.6 8.4 19.9

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

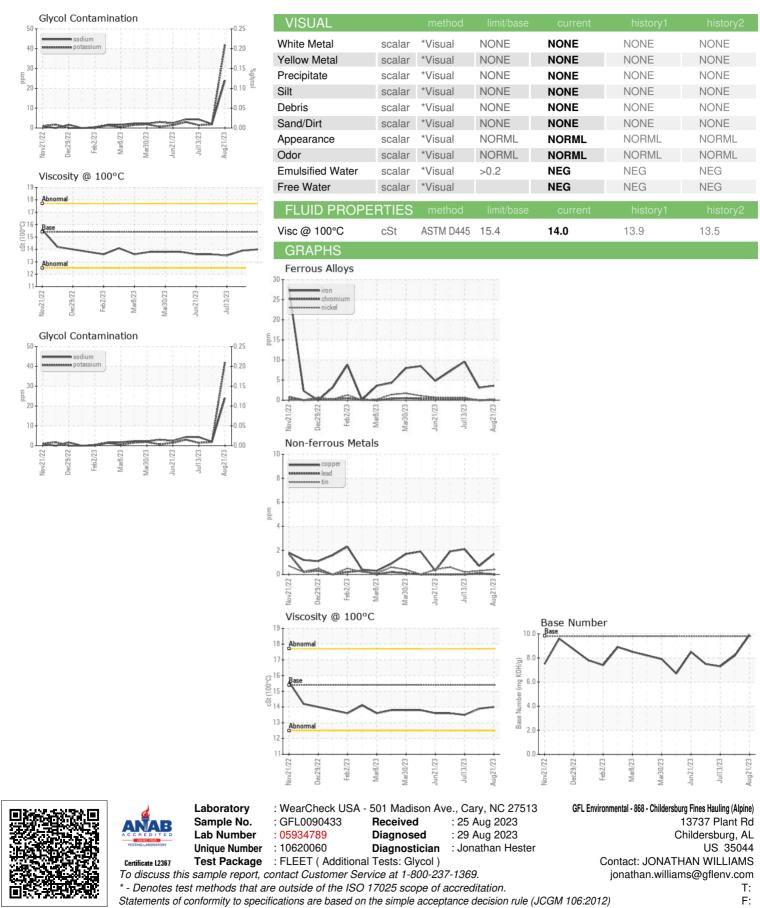
There is no indication of any contamination in the oil.

Fluid Condition

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



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Submitted By: see also GFL868 - Chelsea Bryan