

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 10910C

Component **Natural Gas Engine**

Elui PETRO CANADA DURON GEO LD 15W40 (10 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(10 GAL)								
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2		
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0084252 30 Jun 2023 9832	GFL0069714 19 May 2023 9529	GFL0043307 20 May 2022 7500		
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		9832 Changed NORMAL	9529 Changed NORMAL	395 N/A NORMAL		
WEAR METALS	S	method	limit/base	current	history 1	history 2		
Iron	ppm	ASTM D5185m	>50	14	11	10		
Chromium	ppm	ASTM D5185m	>4	2	2	1		
Nickel	ppm	ASTM D5185m	>2	0	<1	0		
Titanium	ppm	ASTM D5185m		<1	<1	0		
Silver	ppm	ASTM D5185m	>3	0	0	<1		
Aluminum	ppm	ASTM D5185m	>9	1	0	2		
Lead	ppm	ASTM D5185m	>30	0	<1	<1		
Copper	ppm	ASTM D5185m	>35	<1	<1	<1		
Tin	ppm	ASTM D5185m	>4	<1	<1	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history 1	history 2		
Boron	ppm	ASTM D5185m	50	17	14	15		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	50	59	58	46		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	560	657	631	534		
Calcium	ppm	ASTM D5185m	1510	1506	1694	1706		
Phosphorus	ppm	ASTM D5185m	780	842	777	699		
Zinc	ppm	ASTM D5185m	870	1023	1075	941		
Sulfur	ppm	ASTM D5185m	2040	2969	2851	2152		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2		
Silicon	ppm	ASTM D5185m	>+100	3	4	4		
Sodium	ppm	ASTM D5185m		5	6	5		
Potassium	ppm	ASTM D5185m	>20	<1	2	<1		
INFRA-RED		method	limit/base	current	history 1	history 2		
Soot %	%	*ASTM D7844		0.1	0	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.6	10.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	21.4	19.6		
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.1	16.6		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.5	5.4	5.2		



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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	RTIES	method	limit/base	current	history 1	history 2
		method	innibase	ounon	motory	
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.3	14.5
GRAPHS						





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