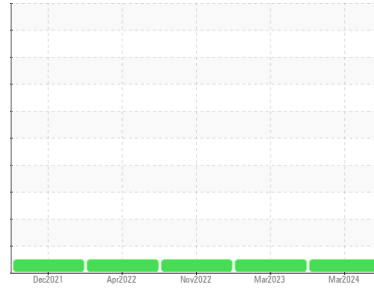




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
731065
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0110253	GFL0064339	GFL0054897
Sample Date	Client Info		05 Mar 2024	16 Mar 2023	02 Nov 2022
Machine Age	hrs	Client Info	4962	2995	2242
Oil Age	hrs	Client Info	1200	1000	1000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	10	10	15
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	4
Lead	ppm	ASTM D5185(m)	>30	5	<1	1
Copper	ppm	ASTM D5185(m)	>35	2	2	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	50	6	7	10
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	52	56	105
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	560	570	573	660
Calcium	ppm	ASTM D5185(m)	1510	1651	1605	1420
Phosphorus	ppm	ASTM D5185(m)	780	696	722	725
Zinc	ppm	ASTM D5185(m)	870	905	913	756
Sulfur	ppm	ASTM D5185(m)	2040	2108	2057	2262
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	3	4	6
Sodium	ppm	ASTM D5185(m)		9	8	<1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	10.2	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	23.3	22.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	16.4	16.4

