

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 933023

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (--- G

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

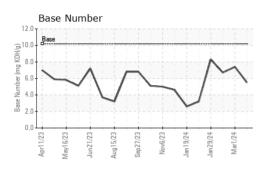
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

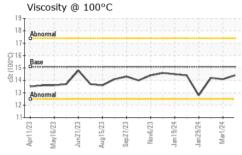
GAL)		pr2023 May20	123 Jun2023 Aug2023 Se	p2023 Nov2023 Jan2024 Jan2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114041	GFL0109805	GFL0109826
Sample Date		Client Info		20 Mar 2024	01 Mar 2024	14 Feb 2024
Machine Age	hrs	Client Info		2817	2676	2540
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base		history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	15	5	6
Chromium	ppm	ASTM D5185m		<1	0	<1
Nickel	ppm		>2	<1	0	<1
Titanium	ppm	ASTM D5185m	-	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	3
Lead	ppm	ASTM D5185m	>30	2	<1	2
Copper	ppm		>35	14	0	6
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	28	27
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	55	49	50
Manganese	ppm		0	0	0	<1
Magnesium	ppm	ASTM D5185m	560	579	594	570
Calcium	ppm	ASTM D5185m	1510	1742	1701 874	1484 758
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	780 870	844 1027	874 994	968
Sulfur	ppm ppm	ASTM D5185m	2040	3112	994 2694	2486
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>+100	4	3	9
Sodium	ppm ppm	ASTM D5185m	>+100	4 68	5	3
Potassium	ppm	ASTM D5185m	>20	00 19	0	2
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	7.8	8.7
Sulfation	Abs/.1mm	*ASTM D7415		19.6	19.2	20.9

FLUID DEGRAD	ATION	method				history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	15.5	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.5	7.4	6.7

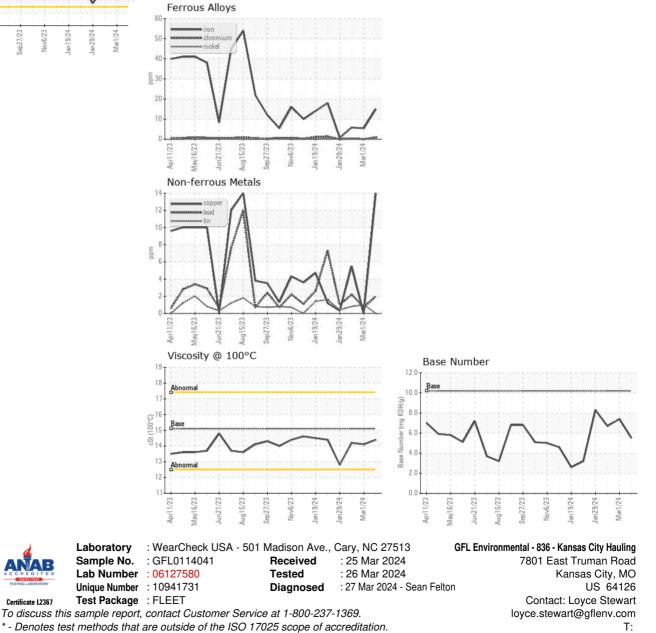


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.1	14.2
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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