

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

948012-205266

Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: OIL SAMPLE)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

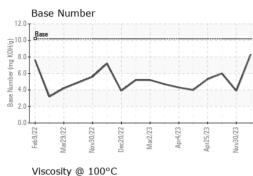
Fluid Condition

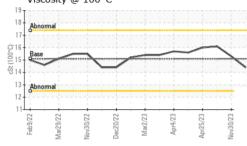
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

(GAL)		eb2022 Mara	022 Nov2022 Dec2022	Mar2023 Apr2023 Apr2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092070	GFL0084628	GFL0078161
Sample Date		Client Info		02 Dec 2023	30 Nov 2023	04 May 2023
Machine Age	mls	Client Info		146880	1658	16589
Oil Age	mls	Client Info		43063	600	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method				0.10
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	15	41
Chromium	ppm	ASTM D5185m		<1	1	3
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m	-	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		1	4	7
Lead	ppm	ASTM D5185m	>30	0	<1	1
Copper	ppm	ASTM D5185m		0	<1	6
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	44	6	15
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	50	48	58	104
Manganese	ppm	ASTM D5185m	0	0	<1	2
Magnesium	ppm	ASTM D5185m	560	496	611	677
Calcium	ppm	ASTM D5185m	1510	1441	1659	1901
Phosphorus	ppm	ASTM D5185m	780	706	749	861
Zinc	ppm	ASTM D5185m	870	845	1048	1163
Sulfur	ppm	ASTM D5185m	2040	2370	2605	3188
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	5	21
Sodium	ppm	ASTM D5185m		12	1 01	1 354
Potassium	ppm	ASTM D5185m	>20	3	16	A 238
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.3	11.8	17.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	23.6	27.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	19.8	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.3	3.9	6.0

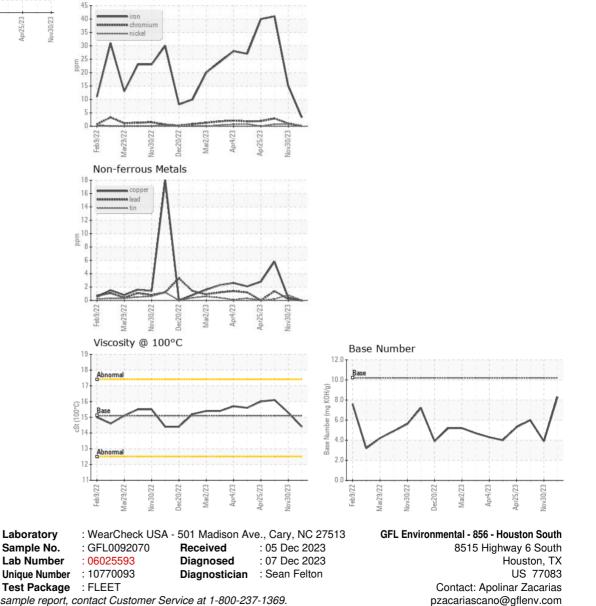


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	15.3	16.1
GRAPHS						
Ferrous Alloys						





^{* -} Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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