

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 946012-260292

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.

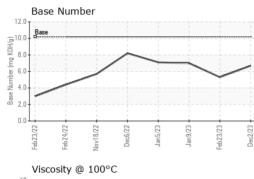
Fluid Condition

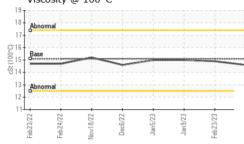
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

	CRC)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0092090	GFL0073635	GFL0068413		
Sample Date		Client Info		02 Dec 2023	23 Feb 2023	09 Jan 2023		
Machine Age	mls	Client Info		451349	451349	42696		
Oil Age	mls	Client Info		451349	0	0		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	9	13	7		
Chromium	ppm	ASTM D5185m	>4	<1	1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	1	1	1		
Lead	ppm	ASTM D5185m	>30	0	5	2		
Copper	ppm	ASTM D5185m	>35	15	17	1		
Tin	ppm	ASTM D5185m	>4	0	<1	0		
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	17	17	12		
Barium	ppm	ASTM D5185m	5	2	0	0		
Molybdenum	ppm	ASTM D5185m	50	50	53	54		
Manganese	ppm	ASTM D5185m	0	0	1	<1		
Magnesium	ppm	ASTM D5185m	560	523	604	557		
Calcium	ppm	ASTM D5185m	1510	1454	1746	1655		
Phosphorus	ppm	ASTM D5185m	780	669	741	736		
Zinc	ppm	ASTM D5185m	870	874	1043	944		
Sulfur	ppm	ASTM D5185m	2040	2427	2487	2733		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	6	7	4		
Sodium	ppm	ASTM D5185m		9	9	6		
Potassium	ppm	ASTM D5185m	>20	5	2	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.3	9.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	23.6	20.3		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2		
						10.0		
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	21.2	16.9		
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	17.3 6.7	21.2 5.3	7.0		

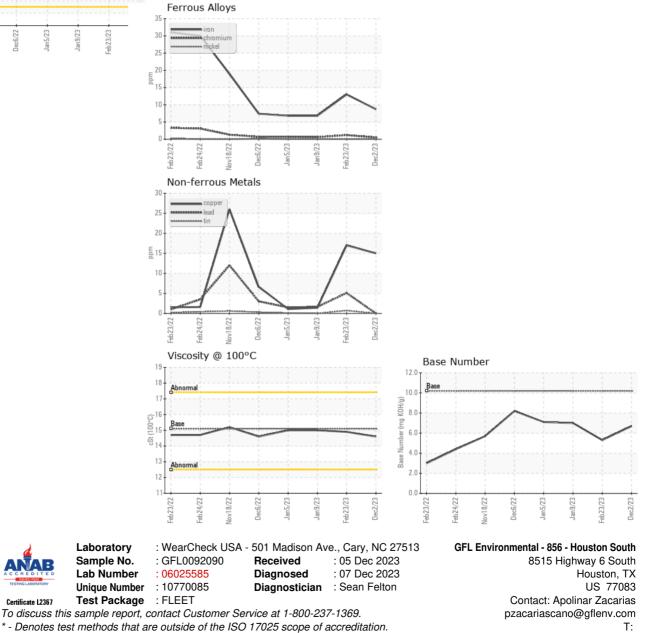


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.6	14.9	15.0
GRAPHS						





* - 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)

Certificate L2367

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