

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 732015

Component Natural Gas Engine

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

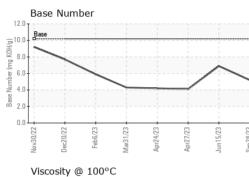
Fluid Condition

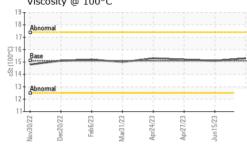
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084591	GFL0084722	GFL0078186
Sample Date		Client Info		28 Sep 2023	15 Jun 2023	27 Apr 2023
Machine Age	mls	Client Info		0	35720	32416
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	8	19
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	1	2
Lead	ppm	ASTM D5185m	>30	1	<1	2
Copper	ppm	ASTM D5185m	>35	1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	11	16	14
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	54	67
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	560	625	640	751
Calcium	ppm	ASTM D5185m	1510	1740	1746	1981
Phosphorus	ppm	ASTM D5185m	780	730	800	873
Zinc	ppm	ASTM D5185m	870	1023	1035	1216
Sulfur	ppm	ASTM D5185m	2040	2549	3048	2988
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	6
Sodium	ppm	ASTM D5185m		7	6	8
Potassium	ppm	ASTM D5185m	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.5	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.3	23.6
Gallaton						
FLUID DEGRAD		method	limit/base	current	history1	history2
		method *ASTM D7414	limit/base >25		history1 18.3	history2 19.8



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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
\wedge	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
Apr27/23 Jun 15/23 Sep28/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ar Ju Ju Se	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		method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	15.1	15.3	15.1	15.2
	GRAPHS Ferrous Alloys						
	²⁰		-1				
Apr27/23 Jun 15/23	iron chromium nickel						
Ap	15 - nickel						
	La 10						
			<u> </u>				
	5-						
	23 IS	723	/23	/23			
	Nov30/22 Dec20/22 Feb6/23	Mar31/23 Apr24/23	Apr27/23 Jun15/23	Sep28/23			
	Non-ferrous Meta						
	10 copper]						
	8 - comparing lead						
	6						
	4	~					
	2		_				
	2 Constant of Constant of Constant			and the second se			
	23 23 0	23	23+	53			
	Nov30/22 Dec20/22 Feb6/23	Mar31/23 Apr24/23	Apr27/23 Jun15/23	Sep28/23			
	Viscosity @ 100°		~ ~				
	¹⁹			12.0	Base Number		
	18 Abnormal			10.0	Base		
	17-			(B/HOX 8.0			
	Base 15 - Base 33 14			Ē			\wedge
	53 14			a 6.0			
				V ase	D -		
	13 Abnormal			2.0)		
	Nov30/22 Dec20/22 Feb6/23	Mar31/23 Apr24/23	Apr27/23 Jun 15/23	Sep 28/23	Nov30/22 Dec20/22 Feb6/23	Mar3 1/23 Apr2 4/23	Apr27/23 Jun15/23 Sep28/23
	E De No	Ap	Ar	S.	E D No	Ma	Ar Jun Sel
Laboratory	: WearCheck USA -	501 Madi	son Ave., Ca	ary, NC 27513	3 GFL En	vironmental - 856	- Houston South
Sample No.	: GFL0084591	Received	d : 02	Oct 2023			ighway 6 South
Lab Number	: 05966842	Diagnos		Oct 2023			Houston, TX
Unique Number Test Package	: 10673393 : FLEET	Diagnost	ician : We	s Davis		Contact: KI	US 77083 EITH ROWALD
	contact Customer Serv	vice at 1-8	00-237-136	9.			lld@gflenv.com
sample report, o	contact Customer Serv	/ice at 1-8	00-237-136	9.		krowa	lld@gflenv.com

VISUAI method limit/base current historv1 historv2

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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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