

OIL ANALYSIS REPORT

Sample Rating Trend

18...88...





Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (8 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.

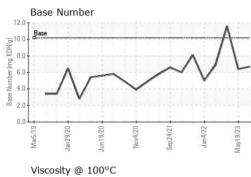
Fluid Condition

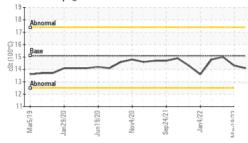
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069755	GFL0069707	GFL0043296
Sample Date		Client Info		11 Oct 2023	19 May 2023	24 Mar 2022
Machine Age	hrs	Client Info		12078	11390	8659
Oil Age	hrs	Client Info		11390	11390	262
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	8	9
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	1	0	4
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	26	16	99
Barium	ppm	ASTM D5185m	5	4	0	0
Molybdenum	ppm	ASTM D5185m	50	55	56	145
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	572	630	611
Calcium	ppm	ASTM D5185m	1510	1384	1588	1280
Phosphorus	ppm	ASTM D5185m	780	712	783	718
Zinc	ppm	ASTM D5185m	870	889	1025	903
Sulfur	ppm	ASTM D5185m	2040	2217	2721	2465
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	7	18
Sodium	ppm	ASTM D5185m		3	6	▲ 757
Potassium	ppm	ASTM D5185m	>20	<1	2	39
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.2	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.5	22.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.1	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.7	6.4	11.6



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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
VL	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
Jan4/22 May19/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
U. Ma	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	ERTIES	method	limit/base	current	history1	history2
\sim	Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.3	15.0
~ ~	GRAPHS Ferrous Alloys						
	14 T	Λ					
Jan4/22 -	12 - iron chromium	M					
Jan4/22 ™™1 a./22	10 - nickel	/	V) /)				
		/	1 1	\sim			
	4		7				
	2-	1 1 1 1					
		second and	$\sim \sim$	man			
	Mar5/19 - Jan29/20 - Jun19/20 -	Nov4/20	Sep24/21. Jan4/22.	May19/23 .			
	Mar Jan2 Jun1	Nov	Sepi	May1			
	Non-ferrous Meta	ils					
	10 copper						
	8 - Reason lead	1.1.1.1.	J. J. J. J.				
	6- mdd						
	8 4-						
		$\wedge \Lambda$					
	2	VV	Λ /	1			
				*			
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			Se	May			
	Viscosity @ 100°	C			Base Numbe	r	
	18			12.		TITLE	٨
	Abnormal				0 - Base		
				KoH/6	0-		A / \
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	to 14	\sim		numbe	$ \Lambda r$	\sim	V
	13 Abnormal		Y	V aseg		Y	
	12 -	- +		2.	0-		
	11			0.			
	Mar5/19 Jan29/20 Jun19/20	Nov4/20	Sep 24/21 Jan 4/22	May19/23	Mar5/19 Jan29/20	Jun19/20 Nov4/20 Sep24/21	Jan 4/22 May 1 9/23
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aboratory ample No.	: WearCheck USA - : GFL0069755	501 Madis Received			,	ironmental - 031 - Gre	
ample No. ab Number	: WearCheck USA - : GFL0069755 : 05980291	Received Diagnos	d :16 ed :17	ary, NC 2751 Oct 2023 Oct 2023	,	ironmental - 031 - Gre	enville/Spartanburg ioch Church Ro Piedmont, SC
ample No.	: WearCheck USA - : GFL0069755 : 05980291	Received	d :16 ed :17	ary, NC 2751 Oct 2023	3 GFL Env	ironmental - 031 - Gre	enville/Spartanburg ioch Church Ro Piedmont, SC US 29673

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

T:

F:

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