

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 433003

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (---

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.

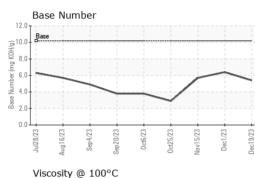
Fluid Condition

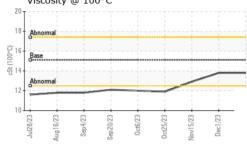
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)						
SAMPLE INFOR	MATION	method	itimit/base	oct2023 oct2023 Nov2023 Dec20	history1	history2
Sample Number		Client Info		GFL0099923	GFL0099948	GFL0099892
Sample Date		Client Info		19 Dec 2023	01 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		1844	1658	1488
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	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	8	8	18
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	3
_ead	ppm	ASTM D5185m	>30	<1	1	4
Copper	ppm	ASTM D5185m	>35	3	8	10
Tin	ppm	ASTM D5185m	>4	1	<1	2
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	21	27	25
Barium	ppm	ASTM D5185m	5	<1	3	0
Molybdenum	ppm	ASTM D5185m	50	53	49	53
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	560	595	529	720
Calcium	ppm	ASTM D5185m	1510	1495	1401	1399
Phosphorus	ppm	ASTM D5185m	780	806	685	781
Zinc	ppm	ASTM D5185m	870	983	886	968
Sulfur	ppm	ASTM D5185m	2040	2608	3649	2395
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	17	15	48
Sodium	ppm	ASTM D5185m		3	<1	4
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.4	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.5	23.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.6	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.4	6.4	5.7

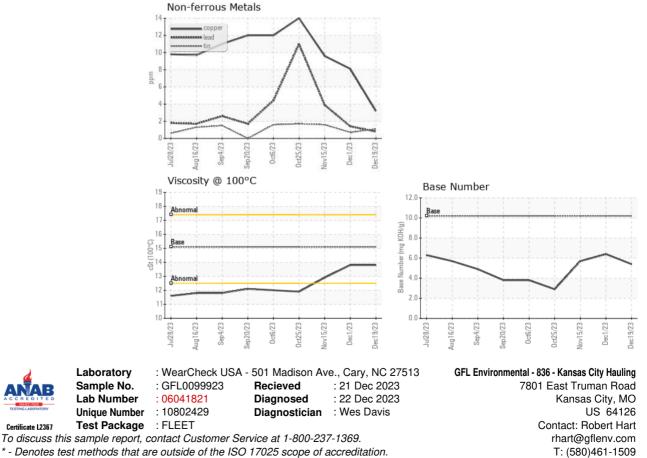


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.8	12.9
GRAPHS						
Ferrous Alloys						
30 iron						
25 - chromium		$\mathbf{\lambda}$				
20-		$\langle \rangle$				
15 -						
10-						
5						
0		Statute and a lot have been a				
Jul28/23 Aug16/23 Sep4/23 Sep20/23	0ct6/23	Oct25/23 Nov15/23 Dec1/23	Dec19/23			
Jul: Seg Sep 2	00	Nov1 Dec	Dect			



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

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

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