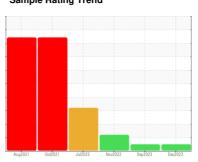


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **744013**

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

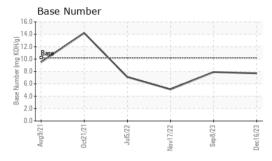
Fluid Condition

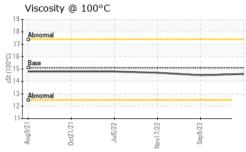
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

בווו)		Aug2021	0ct2021 Jul2022	Nov2022 Sep2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106955	GFL0089709	GFL0063852
Sample Date		Client Info		16 Dec 2023	08 Sep 2023	17 Nov 2022
Machine Age	hrs	Client Info		6016	5280	3181
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method				0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	5	20
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	<1	2
Lead	ppm	ASTM D5185m	>30	<1	0	1
Copper	ppm	ASTM D5185m	>35	<1	<1	7
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	25	28	9
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	51	59
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	518	602	543
Calcium	ppm	ASTM D5185m	1510	1418	1643	1569
Phosphorus	ppm	ASTM D5185m	780	692	803	678
Zinc	ppm	ASTM D5185m	870	864	993	949
Sulfur	ppm	ASTM D5185m	2040	2279	3002	2846
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	4
Sodium	ppm	ASTM D5185m		4	5	174
Potassium	ppm	ASTM D5185m	>20	0	2	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.0	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.2	24.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.5	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.7	7.9	5.1
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OIL ANALYSIS REPORT

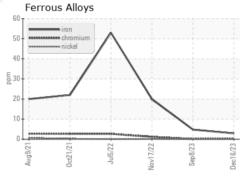


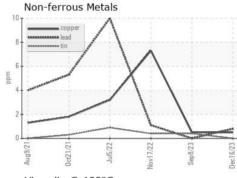


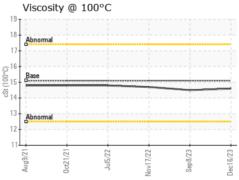
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

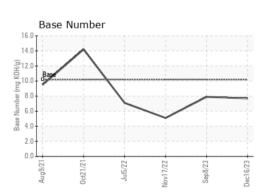
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.5	14.7	

GRAPHS













Laboratory Sample No. Lab Number

: GFL0106955 : 06040368 Unique Number : 10795597

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 21 Dec 2023

Diagnostician : Sean Felton

: 20 Dec 2023

Test Package : FLEET (Additional Tests: FT-IR(Diff)) 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)

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Contact: ROBERT CLARK

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