

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 933049 Component Diesel Engine Fluid

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

DIAGNOSIS

RecommendationResample 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

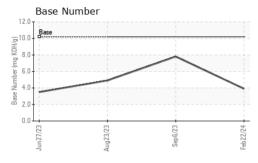
Fluid Condition

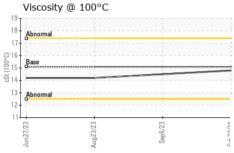
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jun202	3 Aug2023	Sep.2023 F	eb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106132	GFL0078666	GFL0078657
Sample Date		Client Info		22 Feb 2024	06 Sep 2023	23 Aug 2023
Machine Age	hrs	Client Info		2278	1190	1086
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	12	6	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	13
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m	>330	2	1	4
Tin	ppm	ASTM D5185m		<1	<1	2
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	7	29	4
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	48	66
Manganese	ppm	ASTM D5185m	0	<1	2	3
Magnesium	ppm	ASTM D5185m	560	630	632	927
Calcium	ppm	ASTM D5185m	1510	1812	1575	1270
Phosphorus	ppm	ASTM D5185m	780	783	816	964
Zinc	ppm	ASTM D5185m	870	1063	1032	1285
Sulfur	ppm	ASTM D5185m	2040	2618	3211	3626
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	11
Sodium	ppm	ASTM D5185m		9	4	6
Potassium	ppm	ASTM D5185m	>20	5	6	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.8	7.4	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	19.3	20.5
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	16.0	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.9	7.8	4.9



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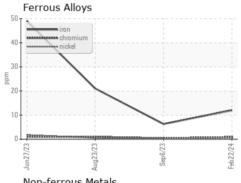


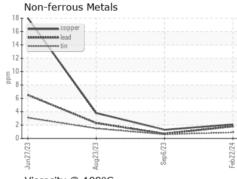


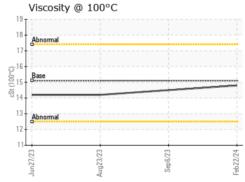
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

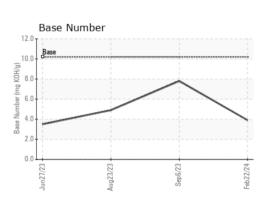
FLUID PROPE	RHES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.5	14.2

GRAPHS













Laboratory Sample No.

Lab Number : 06103517

: GFL0106132

Unique Number : 10901747 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 01 Mar 2024

Diagnosed : 01 Mar 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

Contact: Robert Clark

Certificate L2367 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)

T:

F: