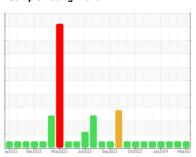


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 711011 Component

Diesel Engine

PETRO CANADA DURON SHP 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

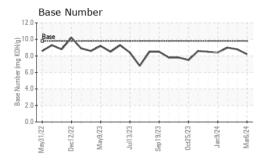
Fluid Condition

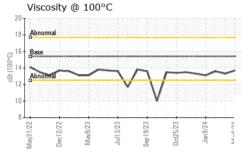
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		ay2022 Dec2	022 May2023 Jul202	3 Sep2023 Oct2023 Jan20	024 Mar202	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105242	GFL0105257	GFL0105312
Sample Date		Client Info		06 Mar 2024	14 Feb 2024	02 Feb 2024
Machine Age	nrs	Client Info		8781	8258	8129
Oil Age	hrs	Client Info		450	150	150
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>100	10	17	11
Chromium	opm	ASTM D5185m	>20	0	<1	<1
Nickel	opm	ASTM D5185m	>4	0	<1	0
Titanium	opm	ASTM D5185m		0	0	0
Silver	opm	ASTM D5185m	>3	0	0	0
Aluminum	opm	ASTM D5185m	>20	<1	10	5
Lead	opm	ASTM D5185m	>40	0	<1	<1
Copper	opm	ASTM D5185m	>330	4	1	<1
Tin p	opm	ASTM D5185m	>15	0	<1	0
Vanadium	opm	ASTM D5185m		0	0	<1
Cadmium	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	0	6	0
Barium	opm	ASTM D5185m	0	0	0	0
Molybdenum	opm	ASTM D5185m	60	59	62	59
Manganese	opm	ASTM D5185m	0	0	<1	<1
Magnesium	opm	ASTM D5185m	1010	909	883	943
Calcium	opm	ASTM D5185m	1070	1022	976	1030
Phosphorus	opm	ASTM D5185m	1150	912	959	1042
Zinc	opm	ASTM D5185m	1270	1114	1214	1259
Sulfur	opm	ASTM D5185m	2060	2755	2913	3130
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>25	2	5	5
Sodium	opm	ASTM D5185m		3	30	10
Potassium	opm	ASTM D5185m	>20	0	38	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.4
Nitration /	Abs/cm	*ASTM D7624	>20	7.1	7.3	5.9
Sulfation /	Abs/.1mm	*ASTM D7415	>30	18.6	19.1	18.3
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	14.2	14.1	13.5
	ng KOH/g	ASTM D2896	9.8	8.2	8.8	9.0
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OIL ANALYSIS REPORT



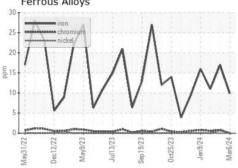


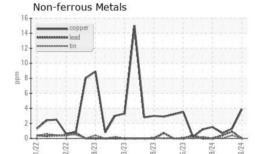
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

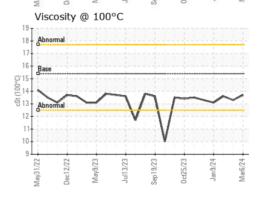
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.3	13.6

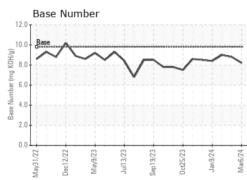
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No.

Lab Number : 06113804 Unique Number: 10922637 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0105242 Received : 11 Mar 2024 **Tested** : 11 Mar 2024

Diagnosed : 11 Mar 2024 - Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

T: (417)664-0010

Contact: Landen Johnson landen.johnson@gflenv.com

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)