

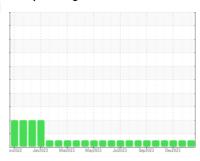
OIL ANALYSIS REPORT

{UNASSIGNED} 913025

Component

Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)



Sample Rating Trend



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

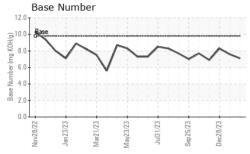
Fluid Condition

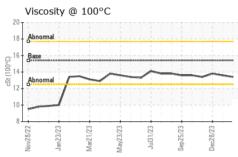
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099027	GFL0098944	GFL0098974
Sample Date		Client Info		12 Feb 2024	23 Jan 2024	28 Dec 2023
Machine Age	nrs	Client Info		3501	3332	3166
Oil Age	nrs	Client Info		2410	2410	2410
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	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 METALS		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>120	18	14	5
Chromium	opm	ASTM D5185m	>20	<1	0	<1
Nickel	opm	ASTM D5185m	>5	2	1	2
Titanium	opm	ASTM D5185m	>2	0	0	0
Silver	opm	ASTM D5185m	>2	<1	0	0
Aluminum	opm	ASTM D5185m	>20	4	1	2
Lead	opm	ASTM D5185m	>40	0	0	<1
Copper	opm	ASTM D5185m	>330	2	2	<1
Tin p	opm	ASTM D5185m	>15	<1	<1	<1
Vanadium p	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	5	0	0
Barium p	opm	ASTM D5185m	0	0	0	0
Molybdenum	opm	ASTM D5185m	60	57	58	54
Manganese	opm	ASTM D5185m	0	<1	0	<1
Magnesium	opm	ASTM D5185m	1010	848	1031	915
Calcium	opm	ASTM D5185m	1070	983	1111	997
Phosphorus	opm	ASTM D5185m	1150	990	1073	987
Zinc	opm	ASTM D5185m	1270	1155	1283	1231
Sulfur	opm	ASTM D5185m	2060	2699	3221	3012
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>25	5	4	2
Sodium	opm	ASTM D5185m		1	<1	0
Potassium	opm	ASTM D5185m	>20	14	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.3	6.0
Sulfation /	Abs/.1mm	*ASTM D7415	>30	19.5	18.9	18.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation /	Abs/.1mm	*ASTM D7414	>25	15.1	14.1	13.7
Base Number (BN)	ng KOH/g	ASTM D2896	9.8	7.1	7.6	8.3
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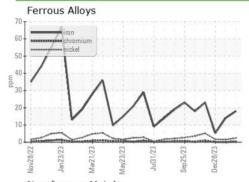


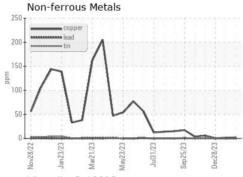


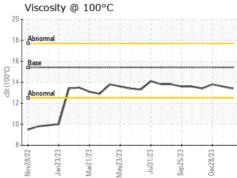
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

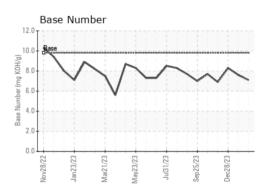
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	13.8

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0099027 Lab Number : 06094896 Unique Number : 10887749 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Feb 2024 **Tested** : 21 Feb 2024

Diagnosed

: 21 Feb 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN

US 37042 Contact: ROBERT THIBAULT

robert.thibault@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. T: (931)552-7276 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (931)572-9674