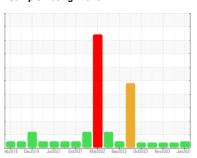


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **923040-260203**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

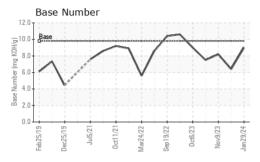
Fluid Condition

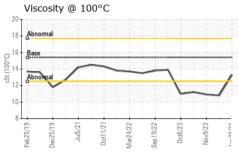
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

JAL)		eb 2019 Dec 20	019 Jul2021 Oct2021	Mar2022 Sep 2022 Oct2023 Nov.	2023 Jan202 [,]	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088134	GFL0088215	GFL0088212
Sample Date		Client Info		29 Jan 2024	18 Dec 2023	09 Nov 2023
Machine Age	mls	Client Info		14894	0	11999
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	66	50
Chromium	ppm	ASTM D5185m	>20	0	2	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	5	4
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	1	7	4
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	4	5
Barium	ppm	ASTM D5185m	0	0	0	5
Molybdenum	ppm	ASTM D5185m	60	60	58	61
Manganese	ppm	ASTM D5185m	0	<1	4	3
Magnesium	ppm	ASTM D5185m	1010	942	885	1016
Calcium	ppm	ASTM D5185m	1070	1074	1026	1209
Phosphorus	ppm	ASTM D5185m	1150	1050	868	1156
Zinc	ppm	ASTM D5185m	1270	1299	1193	1487
Sulfur	ppm	ASTM D5185m	2060	3154	2801	3502
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	13	12
Sodium	ppm	ASTM D5185m		4	22	13
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1.3	1
Nitration	Abs/cm	*ASTM D7624	>20	5.9	10.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	22.6	21.0
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	19.6	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	6.4	8.2



OIL ANALYSIS REPORT

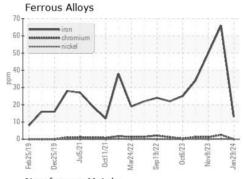


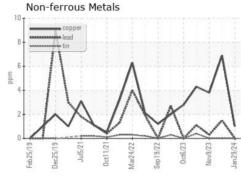


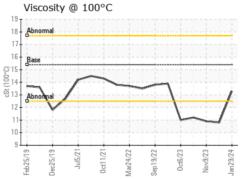
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

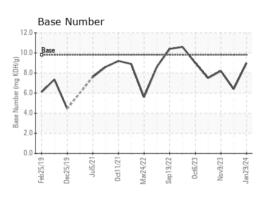
FLUID PROPE	RHES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	1 0.8	▲ 10.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088134 Lab Number : 06085627

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Unique Number : 10873072

Tested : 12 Feb 2024 Diagnosed

: 12 Feb 2024

: 12 Feb 2024 - Wes Davis

3700 West 7th Street Joplin, MO US 64801

GFL Environmental - 820 - Joplin Hauling

Contact: James Jarrett jjarrett@gflenv.com

T: (417)310-2802

* - 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)

F: