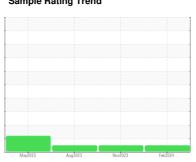


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 426137-4618

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (---

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

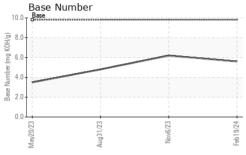
Fluid Condition

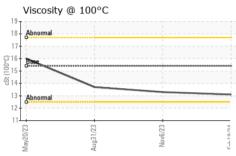
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		May202	3 Aug ² 023	Nov2023 Fe	62024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112116	GFL0094107	GFL0089404
Sample Date		Client Info		19 Feb 2024	06 Nov 2023	31 Aug 2023
Machine Age	mls	Client Info		359299	355610	348319
Oil Age	mls	Client Info		359299	355610	348319
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	6	15	45
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		<1	1	3
Lead -	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m		<1	0	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
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	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	51	40	45
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	18	20	144
Calcium	ppm		1070	2226	2353	2363
Phosphorus	ppm	ASTM D5185m	1150	1009	1007	1098
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1152 2932	1179 2906	1351 3991
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7	6	13
Sodium	ppm	ASTM D5185m	720	4	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.7	10.6	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	21.3	26.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRAL Oxidation	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 9.8	history1 13.9	history2 22.6



OIL ANALYSIS REPORT

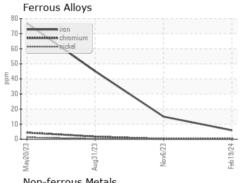


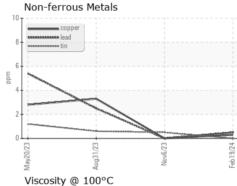


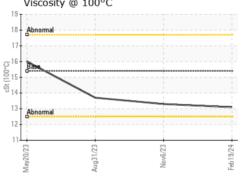
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

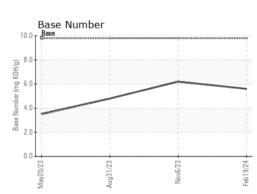
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.3	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0112116 Lab Number : 06099832 Unique Number : 10898062 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested**

: 27 Feb 2024 Diagnosed : 27 Feb 2024 - Don Baldridge

GFL Environmental - 983 - Sugar Land Hauling

16011 West Belfort Street Sugar Land, TX US 77498

Contact: Adrian Martinez adrianmartinez@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)

T:

F: