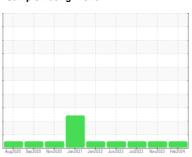


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **529010-7032**

Component **Diesel Engine**

Fluid

PETRO CANADA DURON SHP 15W40 (41 LTR)

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

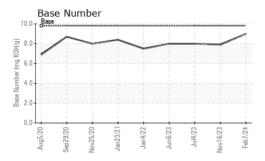
Fluid Condition

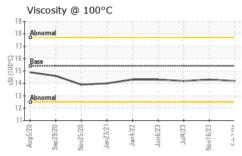
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Aug ² 020 Sep ² 020 Nov ² 020 Jan ² 021 Jan ² 022 Jan ² 023 Nov ² 023 Nov ² 023 Feb ² 024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103869	GFL0091743	GFL0086593
Sample Date		Client Info		07 Feb 2024	16 Nov 2023	04 Jul 2023
Machine Age	hrs	Client Info		11380	10837	9970
Oil Age	hrs	Client Info		0	10837	0
Oil Changed		Client Info		Not Changd	Changed	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	7	17	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<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	2	3	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	1	1
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	58	63	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1008	974	986
Calcium	ppm	ASTM D5185m	1070	1049	1079	1107
Phosphorus	ppm	ASTM D5185m	1150	1066	1005	998
Zinc	ppm	ASTM D5185m	1270	1264	1242	1214
Sulfur	ppm	ASTM D5185m	2060	3148	3150	3273
CONTAMINAN	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	8	6
Sodium	ppm	ASTM D5185m		1	0	3
Potassium	ppm	ASTM D5185m	>20	2	5	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.5	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.4	20.7
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.8	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	7.9	8.0
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OIL ANALYSIS REPORT



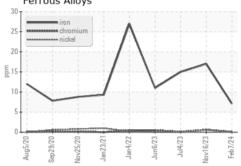


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

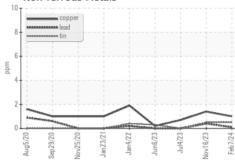
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	14.2

GRAPHS

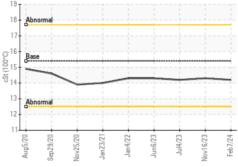
Ferrous Alloys

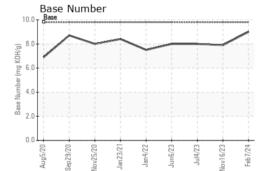
















Laboratory Sample No. Lab Number : 06089360

: GFL0103869

Unique Number : 10876805

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@gflenv.com

Test Package : FLEET 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: