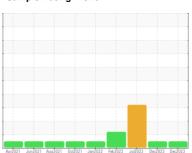


OIL ANALYSIS REPORT

Sample Rating Trend









Diesel Engine

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

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

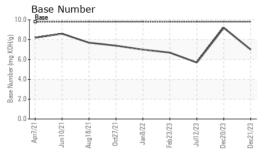
Fluid Condition

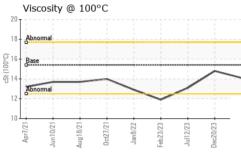
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	/	Apr2021 Jui	n2021 Aug2021 Oct2021	Jan2022 Feb2023 Jul2023 Dec20	23 Dec2023	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105859	GFL0105848	GFL0086700
Sample Date		Client Info		21 Dec 2023	20 Dec 2023	12 Jul 2023
Machine Age	hrs	Client Info		15345	14300	14095
Oil Age	hrs	Client Info		14095	14095	12999
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	2.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	28	0	6 4
Chromium	ppm	ASTM D5185m	>5	<1	0	5
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	11
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	<1	3
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	1
Barium	ppm	ASTM D5185m	0	<1	<1	2
Molybdenum	ppm	ASTM D5185m	60	64	60	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1002	949	886
Calcium	ppm	ASTM D5185m	1070	1138	1025	1107
Phosphorus	ppm	ASTM D5185m	1150	1155	1123	993
Zinc	ppm	ASTM D5185m	1270	1381	1278	1255
Sulfur	ppm	ASTM D5185m	2060	2991	3243	2897
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	6	<u>^</u> 22
Sodium	ppm	ASTM D5185m		7	2	8
Potassium	ppm	ASTM D5185m	>20	<1	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0	1
Nitration	Abs/cm	*ASTM D7624	>20	10.0	4.2	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	17.2	25.6
FLUID DEGRAD	ATION	method				history2
FLUID DEGRAD Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	19.7 7.0	history1 12.8 9.2	history2 23.3 5.7



OIL ANALYSIS REPORT

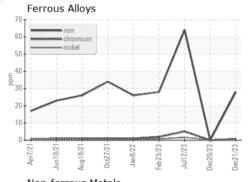


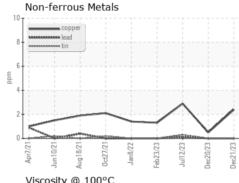


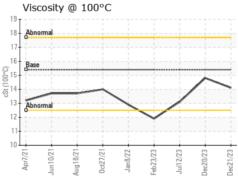
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

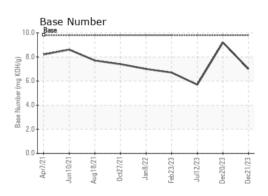
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.8	13.1

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10804486 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0105859 : 06043878

Recieved Diagnosed

: 22 Dec 2023 : 26 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)