

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **122057_10222**

428057-402383

Diesel Engine

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

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

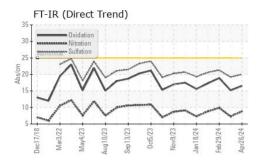
Fluid Condition

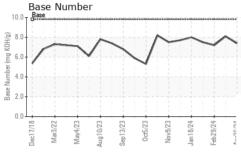
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

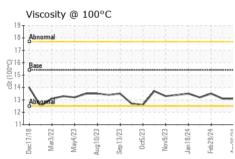
GAL) ed018 Med022 Meg0223 Aug0223 Sug023 Sug023 Sug023 Jud024 Feb024 Apy022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104819	GFL0104890	GFL0104959
Sample Date		Client Info		26 Apr 2024	08 Apr 2024	29 Feb 2024
Machine Age	mls	Client Info		477569	473428	465185
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	8	4	8
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	3
Lead	ppm	ASTM D5185m	>45	0	0	1
Copper	ppm	ASTM D5185m		3	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm		0	2	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	57
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	1010	962	982	974
Calcium	ppm	ASTM D5185m	1070	1086	1185	1077
Phosphorus 	ppm	ASTM D5185m	1150	1085	1097	983
Zinc	ppm	ASTM D5185m	1270	1274	1346	1231
Sulfur	ppm	ASTM D5185m	2060	3467	3762	3398
CONTAMINAN	TS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>30	5	3	3
Sodium	ppm	ASTM D5185m		5	2	5
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.3	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.2	21.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.2	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	8.1	7.2



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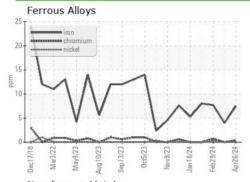


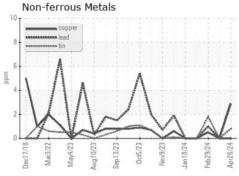


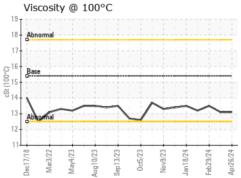
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

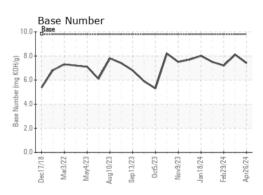
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	13.5

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0104819 Lab Number : 06176729

Unique Number : 11022782 Test Package : FLEET

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

Received : 13 May 2024 **Tested** : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

3700 West 7th Street

GFL Environmental - 820 - Joplin Hauling

US 64801 Contact: James Jarrett jjarrett@gflenv.com

T: (417)310-2802

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) Joplin, MO