

OIL ANALYSIS REPORT

Sample Rating Trend







Component

Machine Id 713041 **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

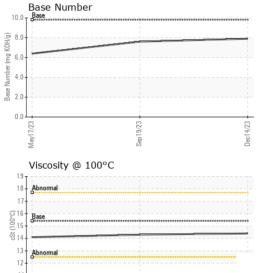
Fluid Condition

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

•	•	Ma	y2023	Sep2023 Dec20	23	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096888	GFL0091708	GFL0071039
Sample Date		Client Info		14 Dec 2023	19 Sep 2023	17 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
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	>80	12	14	50
Chromium	ppm	ASTM D5185m		<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		2	2	5
Lead	ppm	ASTM D5185m	>30		0	0
Copper	ppm	ASTM D5185m		2	1	4
Tin	ppm	ASTM D5185m			<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	22
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m	60	61	63	68
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	967	968	968
Calcium	ppm	ASTM D5185m		1076	1122	1294
Phosphorus	ppm	ASTM D5185m	1150	994	1081	988
Zinc	ppm	ASTM D5185m	1270	1238	1318	1232
Sulfur	ppm	ASTM D5185m	2060	3047	3217	3096
CONTAMINAN		method	limit/hase	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	6
Sodium	ppm	ASTM D5185m	720	0	5	3
Potassium	ppm	ASTM D5185m	>20	4	3	7
INFRA-RED	ррпп	method	limit/base		history1	history2
	0/			current		·
Soot %	% A b a /a ra	*ASTM D7844	>3	0.4	0.4	1
Nitration	Abs/cm	*ASTM D7624		8.9	9.3	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.7	25.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.8	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	7.6	6.4



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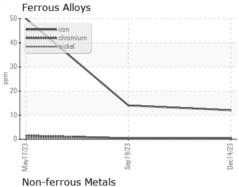


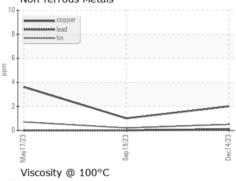
Sep19/23

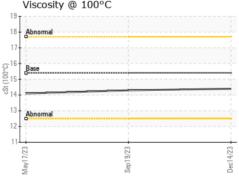
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

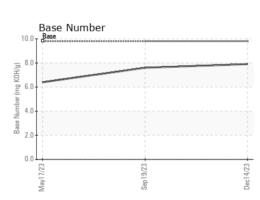
FLUID PROP	EHILO	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10791098 Test Package : FLEET

: GFL0096888 : 06035869

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

: 15 Dec 2023 : 18 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 402- Fort Wayne TS

4429 Allen Martin Drive Fort Wayne, IN US 46806

Contact: ZACHORY ROEHM

zroehm@gflenv.com T:

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)

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