

OIL ANALYSIS REPORT

{UNASSIGNED} 834092

Component **Natural Gas Engine** PETRO CANADA DURON SHP 15W40 (8 GA

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected 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.

AL)						
SAMPLE INFOR			^{z023} limit/base	Dec2023 Dec20		history2
	WATION		IIIIII/Dase		history1	
Sample Number		Client Info		GFL0101163	GFL0101242	GFL0088730
Sample Date	la va	Client Info		22 Dec 2023	04 Dec 2023	30 Oct 2023
Machine Age	hrs hrs	Client Info		502	382 382	147 147
Oil Age	1115	Client Info Client Info		502 Not Changd	Not Changd	Not Changd
Oil Changed Sample Status		Client Inio		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	43	49	35
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	26	29	17
Lead	ppm	ASTM D5185m	>30	<1	0	2
Copper	ppm	ASTM D5185m	>35	17	18	16
Tin	ppm	ASTM D5185m	>4	1	<1	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	11	19	36
Barium	ppm	ASTM D5185m	0	0	5	2
Molybdenum	ppm	ASTM D5185m	60	58	54	50
Manganese	ppm	ASTM D5185m	0	12	13	13
Magnesium	ppm	ASTM D5185m	1010	743	682	708
Calcium	ppm	ASTM D5185m	1070	1127	1111	1046
Phosphorus	ppm	ASTM D5185m	1150	714	598	715
Zinc	ppm	ASTM D5185m	1270	922	814	814
Sulfur	ppm	ASTM D5185m	2060	2447	2572	2080
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	31	37	37
Sodium	ppm	ASTM D5185m		4	5	8
Potassium	ppm	ASTM D5185m	>20	117	125	79
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.3	11.3	9.0
Sulfation	Abs/.1mm	*ASTM D7415		22.3	21.7	20.5
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	20.1	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.0	4.4	7.0
	99		-	-		

Sample Rating Trend

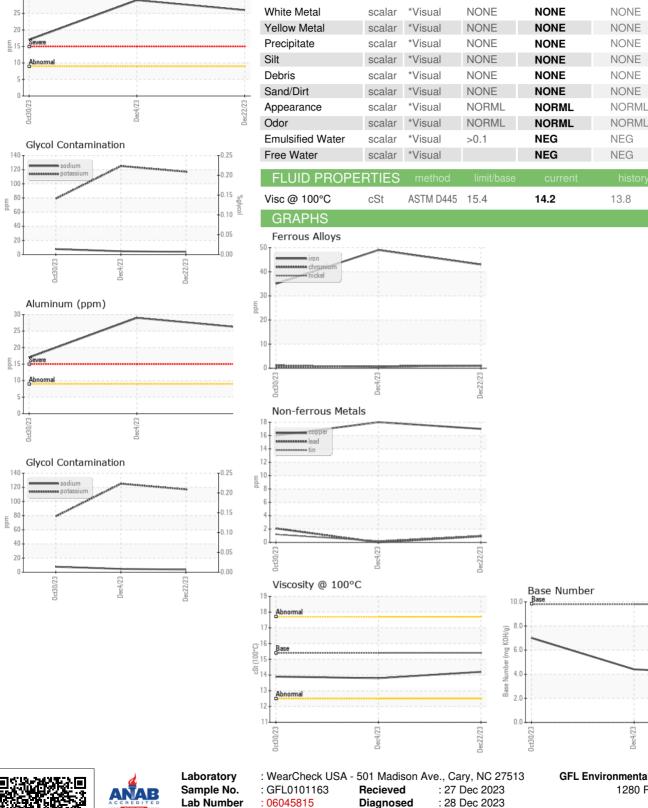
NORMAL



Aluminum (ppm)

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VISUAL



GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway Stockbridge, GA US 30281 Contact: JOSHUA TINKER joshuatinker@gflenv.com T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: Don Baldridge

Diagnostician

Certificate L2367

Unique Number

: 10806423

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : FLEET (Additional Tests: Glycol)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Submitted By: JOSHUA TINKER

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NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

13.9