

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# Jando 19 Judo 19 Oczón 19 Apdozo Aughozo Naughozo Newdozo Marzozz Apdozo Aughozo Naughozo Nau





Machine Id **721022-361655** 

Component

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

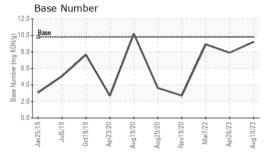
# **Fluid Condition**

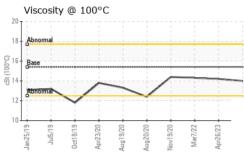
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	Janž019 Jul2019 - Ouž019 Apr2020 Aug2020 Aug2020 Nav2020 Mar2022 Apr2023 Aug2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0087160	GFL0070335	GFL0039616	
Sample Date		Client Info		10 Aug 2023	26 Apr 2023	07 Mar 2022	
Machine Age	hrs	Client Info		26140	26119	24506	
Oil Age	hrs	Client Info		0	600	455	
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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	8	26	50	
Chromium	ppm	ASTM D5185m	>5	0	1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>30	1	3	6	
Lead	ppm	ASTM D5185m	>30	<1	0	1	
Copper	ppm	ASTM D5185m	>150	<1	<1	2	
Tin	ppm	ASTM D5185m	>5	0	0	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	3	
Barium	ppm	ASTM D5185m	0	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	57	61	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	901	948	974	
Calcium	ppm	ASTM D5185m	1070	1099	1042	1088	
Phosphorus	ppm	ASTM D5185m	1150	1033	1013	1066	
Zinc	ppm	ASTM D5185m	1270	1212	1253	1305	
Sulfur	ppm	ASTM D5185m	2060	3404	3588	2252	
Lithium	ppm	ASTM D5185m					
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	3	3	10	
Sodium	ppm	ASTM D5185m		22	5	7	
Potassium	ppm	ASTM D5185m	>20	1	0	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	1.3	2	
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.6	12.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	20.0	25.6	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	16.0	21.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	7.9	8.9	
Dasc Namber (DIN)	my Normy	, 10 THI DE000	0.0	U	7.0	0.0	



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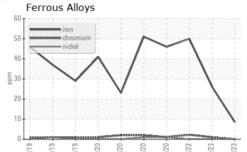


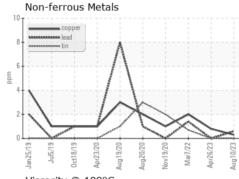


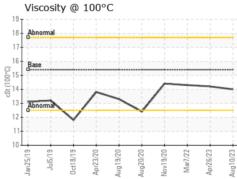
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

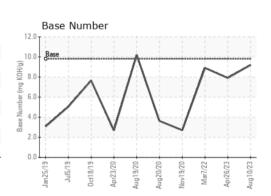
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.3	

# **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

**Unique Number** 

: GFL0087160 : 05923129 : 10603076

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Aug 2023 Diagnosed : 14 Aug 2023

Diagnostician : Wes Davis GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: BRYAN SWANSON

bryanswanson@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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