

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

**NORMAL** 



Machine Id **727043-361323** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (8 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

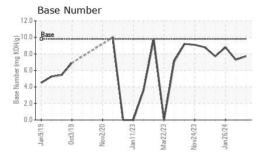
### **Fluid Condition**

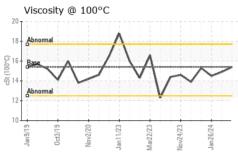
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		an2019 Oc	2019 N6V2U2U Janz	UZ3 MBIZUZ3 NOVZUZ3 J	Jan 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098677	GFL0065488	GFL0098724
Sample Date		Client Info		01 Mar 2024	08 Feb 2024	26 Jan 2024
Machine Age	hrs	Client Info		2710	2553	2418
Oil Age	hrs	Client Info		150	150	150
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	14	11	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m		0	<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	0	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	57	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	931	981	872
Calcium	ppm	ASTM D5185m	1070	998	991	946
Phosphorus	ppm	ASTM D5185m	1150	962	1003	1023
Zinc	ppm	ASTM D5185m	1270	1196	1246	1209
Sulfur	ppm	ASTM D5185m	2060	2802	3066	2975
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		19	15	12
Potassium	ppm	ASTM D5185m	>20	12	9	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	3.7	2.9	2.2
Nitration	Abs/cm	*ASTM D7624		8.9	7.8	6.6
Sulfation	Abs/.1mm	*ASTM D7415		25.1	22.6	20.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	13.5	13.3
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Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.3	8.8



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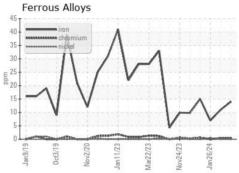


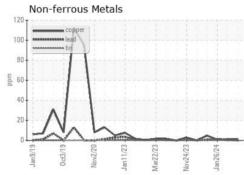


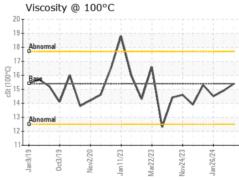
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

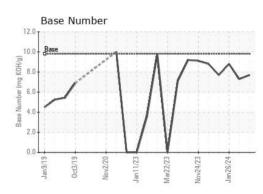
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.4	14.9	14.5

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06108378 Unique Number: 10911875 Test Package : FLEET

: GFL0098677

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Mar 2024 **Tested** : 06 Mar 2024

Diagnosed : 06 Mar 2024 - Wes Davis

GFL Environmental - 829 - Wilco Hauling

5054 Highway HH Hartville, MO US 65667

Contact: James Jones

james.jones@gflenv.com T: (417)349-5006

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)