

# **OIL ANALYSIS REPORT**

(TB6839) Machine Id 812038

Component **Diesel Engine** 

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

# Sample Rating Trend



# 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.

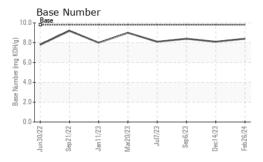
# **Fluid Condition**

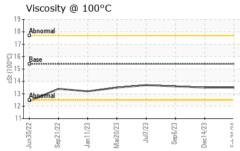
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104572	GFL0104575	GFL0092638	
Sample Date		Client Info		26 Feb 2024	14 Dec 2023	06 Sep 2023	
	nrs	Client Info		4752	4284	3706	
Oil Age	nrs	Client Info		476	578	610	
Oil Changed		Client Info		Changed	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIC	N	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		method	limit/base	current	history1	history2	
Iron p	opm	ASTM D5185m	>100	11	13	9	
Chromium p	opm	ASTM D5185m	>20	<1	<1	<1	
Nickel p	opm	ASTM D5185m	>4	<1	0	0	
Titanium p	opm	ASTM D5185m		<1	0	0	
	opm	ASTM D5185m	>3	0	0	0	
	opm	ASTM D5185m	>20	4	4	3	
	opm	ASTM D5185m	>40	<1	0	0	
	opm	ASTM D5185m	>330	<1	<1	0	
	opm	ASTM D5185m		<1	<1	<1	
	opm	ASTM D5185m		0	<1	0	
	opm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron p	opm	ASTM D5185m	0	0	0	2	
Barium p	opm	ASTM D5185m	0	0	0	0	
Molybdenum p	opm	ASTM D5185m	60	63	63	60	
Manganese p	opm	ASTM D5185m	0	<1	<1	<1	
Magnesium p	opm	ASTM D5185m	1010	975	1008	944	
Calcium	opm	ASTM D5185m	1070	1029	1088	1059	
Phosphorus p	opm	ASTM D5185m	1150	1023	1106	1000	
Zinc	opm	ASTM D5185m	1270	1245	1324	1207	
Sulfur p	opm	ASTM D5185m	2060	3037	3124	3431	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	opm	ASTM D5185m	>25	4	3	3	
Sodium p	opm	ASTM D5185m		1	2	2	
Potassium p	opm	ASTM D5185m	>20	7	5	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.4	
Nitration /	Abs/cm	*ASTM D7624	>20	7.0	7.7	6.5	
	Abs/.1mm	*ASTM D7415		19.2	19.8	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation A	Abs/.1mm	*ASTM D7414	>25	14.4	14.9	13.8	
	ng KOH/g	ASTM D2896	9.8	8.4	8.1	8.4	
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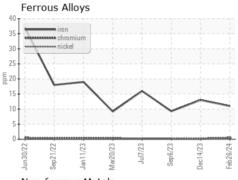


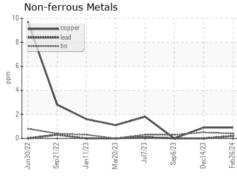


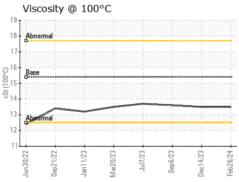
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

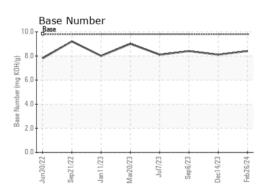
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	13.6

# **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104572 Lab Number : 06107249 Unique Number : 10910746 Test Package : FLEET

Received **Tested** 

Diagnosed

: 04 Mar 2024 : 05 Mar 2024 : 05 Mar 2024 - Wes Davis

GFL Environmental - 947 - WB Horicon HC

N7296 County Rd V Horicon, WI US 53032

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)

Report Id: GFL947 [WUSCAR] 06107249 (Generated: 03/05/2024 09:43:39) Rev: 1

Submitted By: Seel also GFL947 - Tim Kieffer