

# **OIL ANALYSIS REPORT**

(78J6TV)
Machine Id
727102-361673

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (8 GAL)

# au2019 Jan2020 Mar2022 Mar2023 Apr2023 Nov2023 Jan2024

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

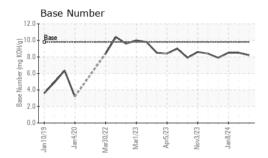
# **Fluid Condition**

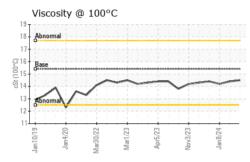
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		an2019 Jar	THE COLD THE COLD		an2024		
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0065483	GFL0065489	GFL0098734	
Sample Date		Client Info		01 Mar 2024	08 Jan 2024	08 Jan 2024	
Machine Age	hrs	Client Info		19141	19008	18878	
Oil Age	hrs	Client Info		150	150	150	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	6	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	19	20	8	
Chromium	ppm	ASTM D5185m	>5	1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	3	2	
Lead	ppm	ASTM D5185m	>25	- <1	<1	<1	
Copper	ppm	ASTM D5185m	>100	<1	1	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m	7	0	0	0	
Cadmium		ASTM D5185m		0	0	0	
	ppm						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	<1	1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	70	65	58	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	995	1016	907	
Calcium	ppm	ASTM D5185m	1070	1033	1055	979	
Phosphorus	ppm	ASTM D5185m	1150	1028	1071	989	
Zinc	ppm	ASTM D5185m	1270	1280	1313	1171	
Sulfur	ppm	ASTM D5185m	2060	2904	3183	2918	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	4	
Sodium	ppm	ASTM D5185m		37	43	13	
Potassium	ppm	ASTM D5185m	>20	21	23	8	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.6	0.7	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.6	7.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.4	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.0	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.5	8.5	
200 Hamber (DIV)	g ronng		5.0	U.2	0.0	0.0	



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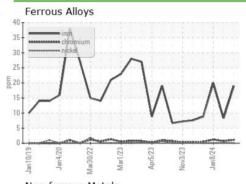


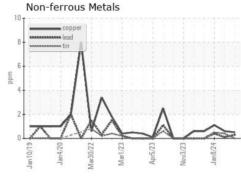


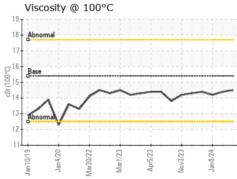
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

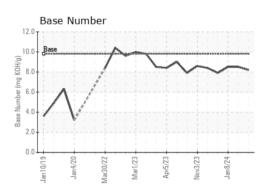
FLUID PROF	PERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.4	14.2

# **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06108379 Unique Number: 10911876 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0065483 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)