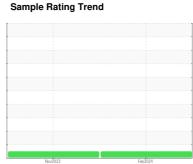


OIL ANALYSIS REPORT

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NORMAL



Machine Id 925058

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

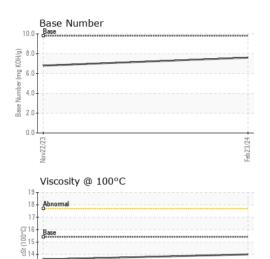
Fluid Condition

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

GAL)						'
			Nov2023	Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108361	GFL0090379	
Sample Date		Client Info		23 Feb 2024	22 Nov 2023	
Machine Age	mls	Client Info		2994	2248	
Oil Age	mls	Client Info		746	2248	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	80	60	
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>4	- <1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	4	
Lead	ppm	ASTM D5185m	>40	2	3	
Copper	ppm	ASTM D5185m		7	8	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	909	924	
Calcium	ppm	ASTM D5185m	1070	1028	1087	
Phosphorus	ppm	ASTM D5185m	1150	994	1017	
Zinc	ppm	ASTM D5185m	1270	1197	1192	
Sulfur	ppm	ASTM D5185m	2060	2983	2781	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	
Sodium	ppm	ASTM D5185m		22	24	
Potassium	ppm	ASTM D5185m	>20	1	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	1	
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.8	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.3	
Base Number (BN)	mg KOH/g		9.8	7.6	6.8	
_ 200 . (2/1)			5.0		0.0	



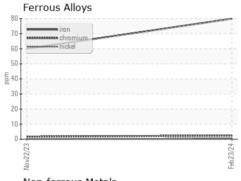
OIL ANALYSIS REPORT



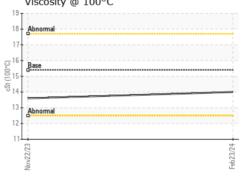
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

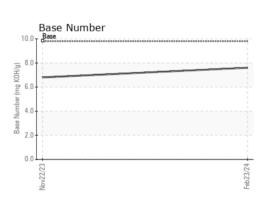
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.6	

GRAPHS



10	Non-ferrous Metals	
	copper	
	accessore [IU]	
mdd	6 +	
4	4 	
	2	***************
(Nov22/23 ↑	-eb23/24
		Feb2
	Viscosity @ 100°C	









Certificate L2367

Laboratory Sample No.

: GFL0108361 Lab Number : 06102763 Unique Number : 10900993 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested**

: 29 Feb 2024 Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 963 - Peoria HC Disposal

1113 N. Swords Ave. West Peoria, IL US 61604

Contact: Corey Dozard cdozard@gflenv.com

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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F: