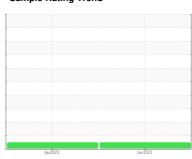


OIL ANALYSIS REPORT

Sample Rating Trend







928054

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

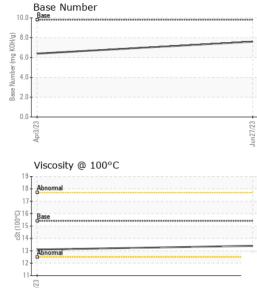
Fluid Condition

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

iAL)			Aprz023	Jun2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0067011	GFL0066963	
Sample Date		Client Info		27 Jun 2023	03 Apr 2023	
Machine Age	hrs	Client Info		12908	12368	
Oil Age	hrs	Client Info		0	12368	
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	
Glycol		WC Method		NEG	NEG	
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	10	30	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Γitanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	5	24	
_ead	ppm	ASTM D5185m	>45	<1	0	
Copper	ppm	ASTM D5185m	>85	2	3	
rin -	ppm	ASTM D5185m	>4	<1	<1	
/anadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	28	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	68	128	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1023	1382	
Calcium	ppm	ASTM D5185m	1070	1287	2118	
Phosphorus	ppm	ASTM D5185m	1150	1104	1512	
Zinc	ppm	ASTM D5185m	1270	1335	1894	
Sulfur	ppm	ASTM D5185m	2060	3767	4684	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	12	
Sodium	ppm	ASTM D5185m		2	6	
Potassium	ppm	ASTM D5185m	>20	5	23	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	22.1	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	17.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	6.4	



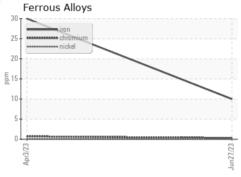
OIL ANALYSIS REPORT



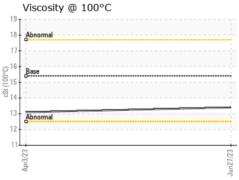
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

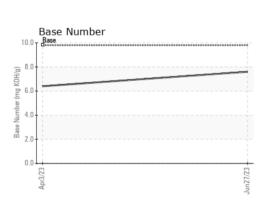
	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.1	

GRAPHS



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Certificate L2367

Laboratory Sample No. Lab Number

: GFL0067011 : 05902163 Unique Number : 10563519 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed : 19 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 916 - Greenbay HC 1799 County Trunk PP DePere, WI

US 54115 Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)