

OIL ANALYSIS REPORT

Area (FAN294) 424075

Diesel Engine

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

Sample Rating Trend



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

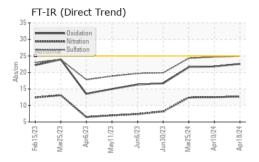
Fluid Condition

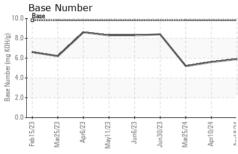
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

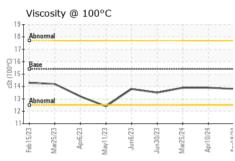
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111522	GFL0111513	GFL0111549	
Sample Date		Client Info		18 Apr 2024	10 Apr 2024	25 Mar 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	Not Changd	
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	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	45	50	45	
Chromium	ppm	ASTM D5185m	>5	2	2	2	
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	>20	4	2	4	
Lead	ppm	ASTM D5185m	>150	4	4	4	
Copper	ppm	ASTM D5185m	>90	57	69	56	
Tin	ppm	ASTM D5185m	>5	1	1	1	
Vanadium		ASTM D5185m	//	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	ppm		11 11 11				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	10	11	12	
Barium	ppm		0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	58	58	
Manganese	ppm	ASTM D5185m	0	1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	902	820	823	
Calcium	ppm	ASTM D5185m	1070	1318	1201	1277	
Phosphorus	ppm	ASTM D5185m	1150	951	887	868	
Zinc	ppm	ASTM D5185m	1270	1210	1095	1134	
Sulfur	ppm	ASTM D5185m	2060	2610	2310	2547	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	15	16	14	
Sodium	ppm	ASTM D5185m		3	3	4	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	1.3	1.6	1.4	
Nitration	Abs/cm	*ASTM D7624	>20	12.7	12.5	12.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	24.7	24.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	21.8	21.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.9	5.6	5.2	



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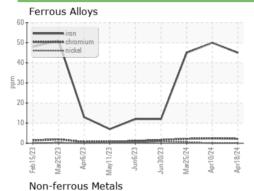


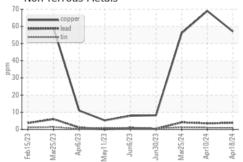


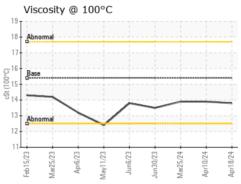
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

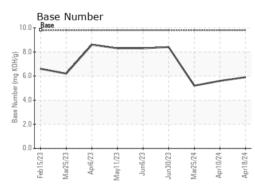
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.9

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111522 Lab Number : 06158884 Unique Number : 10994307 Test Package : FLEET

Received **Tested** Diagnosed

: 24 Apr 2024 : 25 Apr 2024 : 25 Apr 2024 - Wes Davis

GFL Environmental - 074 - Douglas - Transwaste 1219 Landfill Road Douglas, GA

US 31533 Contact: CURTIS JACOBS

To discuss this sample report, contact Customer Service at 1-800-237-1369.

CURTIS.JACOBS@GFLENV.COM T: (912)384-6001

* - 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)