

OIL ANALYSIS REPORT

Area (EIB490) 2680

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

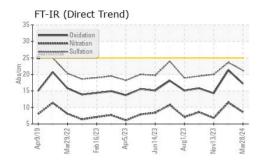
Fluid Condition

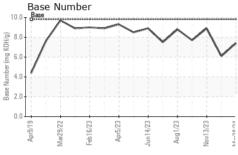
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

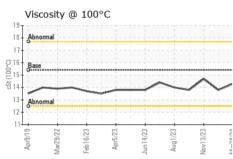
### \$\frac{14}{4}\$ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111553	GFL0111543	GFL0083174	
Sample Date		Client Info		28 Mar 2024	08 Mar 2024	13 Nov 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed	1110	Client Info		Changed	Changed	N/A	
Sample Status		Oliciti IIIIo		NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	11	15	18	
Chromium	ppm	ASTM D5185m	>5	1	<1	2	
Nickel	ppm	ASTM D5185m	>4	1	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	2	
Lead	ppm	ASTM D5185m	>150	6	5	<1	
Copper	ppm	ASTM D5185m	>90	4	2	<1	
Tin	ppm	ASTM D5185m	>5	2	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	6	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	62	63	
Manganese	ppm	ASTM D5185m	0	1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	946	961	1030	
Calcium	ppm	ASTM D5185m	1070	1287	1240	1163	
Phosphorus	ppm	ASTM D5185m	1150	988	1041	1075	
Zinc	ppm	ASTM D5185m	1270	1233	1224	1341	
Sulfur	ppm	ASTM D5185m	2060	3121	3206	3241	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>35	5	6	5	
Sodium	ppm	ASTM D5185m		4	6	3	
Potassium	ppm	ASTM D5185m	>20	1	<1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.2	0.6	1	
Nitration	Abs/cm	*ASTM D7624		8.6	11.5	6.8	
Sulfation	Abs/.1mm	*ASTM D7415		21.2	23.6	20.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	21.3	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	6.1	8.9	
Dasc Nullibel (DIV)	ing Norty	AOTIVI DZ030	5.0	7.7	0.1	0.0	



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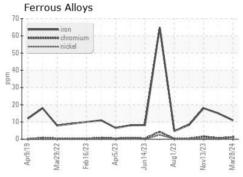


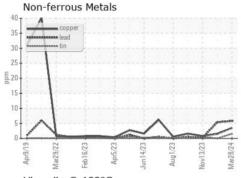


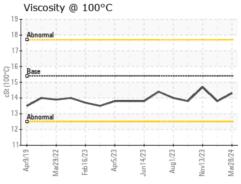
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

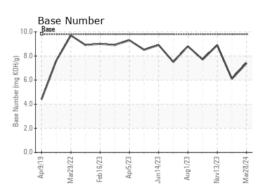
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.8	14.7

GRAPHS













Certificate 12367

Report Id: GFL074 [WUSCAR] 06139556 (Generated: 04/10/2024 18:50:20) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06139556 Unique Number : 10964364

: GFL0111553 Test Package : FLEET

Received : 05 Apr 2024 **Tested** : 10 Apr 2024 Diagnosed

: 10 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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (912)384-6001

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: CURTIS JACOBS