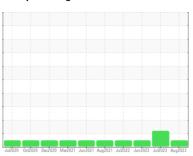


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **529011-7025**

Component **Diesel Engine**

Fluid

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

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

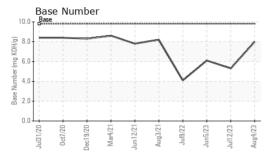
Fluid Condition

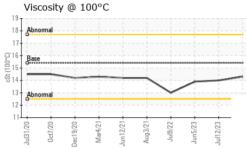
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Juli 200 0-2020 0-2020 Mit 021 Juli 201						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086573	GFL0086613	GFL0074331
Sample Date		Client Info		04 Aug 2023	12 Jul 2023	05 Jun 2023
Machine Age	hrs	Client Info		11735	92	11528
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	10	30	22
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	6	4
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>85	<1	2	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m	24	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppin	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	6	4	5
Barium	ppm	ASTM D5185m	0	0	0	0
		ASTM D5185m	60	67	73	69
Monganose	ppm		0	<1	<1 <1	<1
Manganese Magnesium	ppm	ASTM D5185m	1010	951	932	971
Calcium	ppm	ASTM D5185m	1070	1139	1163	1163
Phosphorus	ppm	ASTM D5185m	1150	1066	1067	1006
Zinc	ppm	ASTM D5185m	1270	1259	1256	1262
Sulfur	ppm	ASTM D5185m	2060	3312	2685	3088
CONTAMINAN	ppm		limit/base	current		history2
Silicon		method ASTM D5185m			history1	8
	ppm	ASTM D5185m	>30	6 2	9	
Sodium	ppm		>20			10
Potassium	ppm	ASTM D5185m		15	<u>▲</u> 57	47
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.8	0.7
Nitration	Abs/cm	*ASTM D7624		6.4	10.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	24.4	23.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Out deathers	A la a / d	*ASTM D7414	0.5	440	00.4	10.0
Oxidation	Abs/.1mm	ASTWID/414	>25	14.0	20.4	19.3



OIL ANALYSIS REPORT

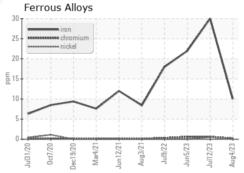


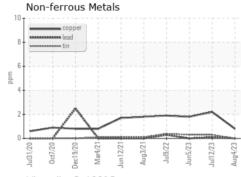


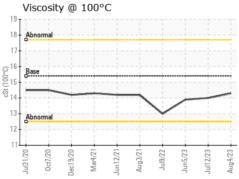
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

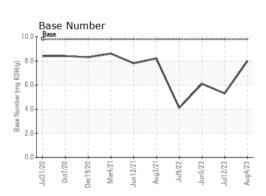
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.0	13.9	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0086573 : 05920040 : 10591954

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Aug 2023 Diagnosed : 09 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 654 - Richmond Hauling

Chester, VA US 23831 Contact: Steven Palmore

11800 Lewis Road

spalmore@gflenv.com

* - 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) T:

F: