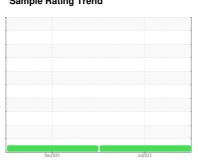


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **922004 - 9921**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- L

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

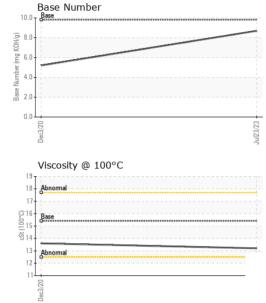
Fluid Condition

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

TR)							
,			Dec2020	Jul2023			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0086612	GFL0014986		
Sample Date		Client Info		23 Jul 2023	03 Dec 2020		
Machine Age	mls	Client Info		0	264516		
Oil Age	mls	Client Info		0	0		
Oil Changed		Client Info		N/A	Changed		
Sample Status				NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0		
Glycol		WC Method		NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	18	14		
Chromium	ppm	ASTM D5185m	>20	<1	<1		
Nickel	ppm	ASTM D5185m	>4	3	2		
Titanium	ppm	ASTM D5185m		<1	64		
Silver	ppm	ASTM D5185m	>3	0	0		
Aluminum	ppm	ASTM D5185m	>20	3	2		
Lead	ppm	ASTM D5185m	>40	<1	0		
Copper	ppm	ASTM D5185m	>330	1	1		
Γin	ppm	ASTM D5185m	>15	<1	0		
Antimony	ppm	ASTM D5185m			0		
Vanadium	ppm	ASTM D5185m		<1	0		
Cadmium	ppm	ASTM D5185m		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	10		
Barium	ppm	ASTM D5185m	0	0	0		
Molybdenum	ppm	ASTM D5185m	60	63	13		
Manganese	ppm	ASTM D5185m	0	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	993	495		
Calcium	ppm	ASTM D5185m	1070	1132	1593		
Phosphorus	ppm	ASTM D5185m	1150	1071	948		
Zinc	ppm	ASTM D5185m	1270	1275	1114		
Sulfur	ppm	ASTM D5185m	2060	3635	2699		
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5		
Sodium	ppm	ASTM D5185m		2	12		
Potassium	ppm	ASTM D5185m	>20	0	0		
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	9.2	11.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	27.4		
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	21.1		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	5.2		
. ,	0						



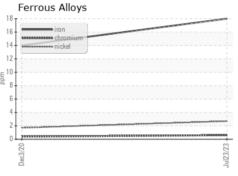
OIL ANALYSIS REPORT

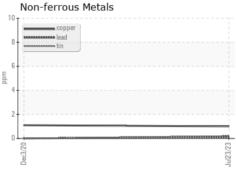


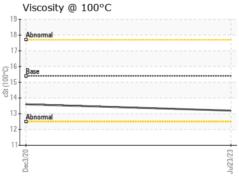
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
	DTIEO	and the selection of	Proc No. // common or comm		la fact a const	la la la visió

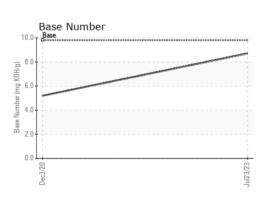
L LOID PROPE		method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.6	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10566509

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086612 : 05905153 Test Package : FLEET

Received Diagnosed Diagnostician : Wes Davis

: 24 Jul 2023 : 24 Jul 2023

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Steven Palmore

spalmore@gflenv.com T:

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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