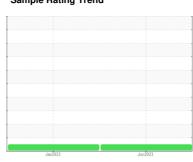


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **820037-251**

Component

Diesel Engine

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

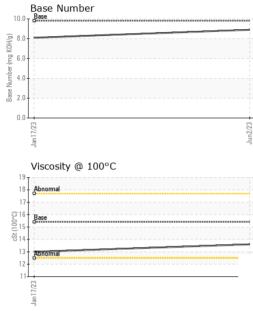
Fluid Condition

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

ΓR)			Jan2023	Jun 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0060337	GFL0055739	
Sample Date		Client Info		02 Jun 2023	17 Jan 2023	
Machine Age	hrs	Client Info		8239	7155	
Oil Age	hrs	Client Info		500	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>110	10	18	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	
Lead	ppm	ASTM D5185m	>45	<1	2	
Copper	ppm	ASTM D5185m	>85	0	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	13	17	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	970	814	
Calcium	ppm	ASTM D5185m	1070	1134	1402	
Phosphorus	ppm	ASTM D5185m	1150	1037	972	
Zinc	ppm	ASTM D5185m	1270	1313	1224	
Sulfur	ppm	ASTM D5185m	2060	3689	3484	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	3	5	
Sodium	ppm	ASTM D5185m		3	4	
Potassium	ppm	ASTM D5185m	>20	2	3	
INFRA-RED		method	limit/base	current	history 1	history 2
	%	*ASTM D7844	>3	0.3	0.5	
Soot %	70					
Soot % Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.7	
Nitration		*ASTM D7624 *ASTM D7415	>20 >30	7.7 19.9	8.7 20.1	
Nitration	Abs/.1mm					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.1	



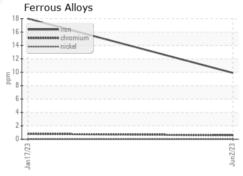
OIL ANALYSIS REPORT

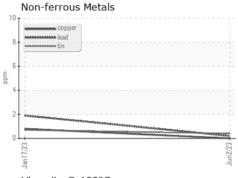


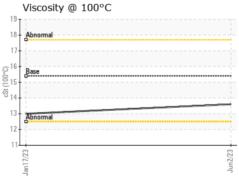
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
ELLUD DDODE						

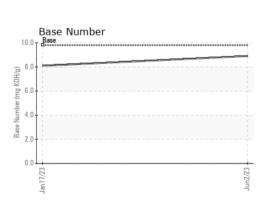
FLUID PROFI		memod			HISTORY I	filstory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10535395

: GFL0060337 : 05884912 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 27 Jun 2023 Received Diagnosed

Diagnostician : Wes Davis

: 30 Jun 2023

GFL Environmental - 904A - Thorpe N14985 Tieman Ave Thorp, WI US 54771 Contact: Andy Kane akane@gflenv.com T: (715)202-3420

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)