

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



713049

Component **Diesel Engine**

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

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.

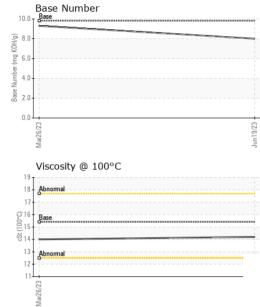
Fluid Condition

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

iAL)			Mar2023	Jun2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084533	GFL0071471	
Sample Date		Client Info		19 Jun 2023	26 Mar 2023	
Machine Age	hrs	Client Info		1622	1069	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>80	15	9	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	6	2	
_ead	ppm	ASTM D5185m	>30	3	0	
Copper	ppm	ASTM D5185m	>150	2	2	
in	ppm	ASTM D5185m	>5	2	0	
/anadium	ppm	ASTM D5185m	>5	0	0	
Cadmium		ASTM D5185m		0	0	
	ppm		lii+/			
ADDITIVES		method	limit/base		history 1	history 2
Boron	ppm	ASTM D5185m	0	3	5	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	60	
Manganese	ppm	ASTM D5185m	0	2	1	
Magnesium	ppm	ASTM D5185m	1010	1026	926	
Calcium	ppm	ASTM D5185m	1070	1131	1138	
Phosphorus	ppm	ASTM D5185m	1150	1054	1016	
Zinc	ppm	ASTM D5185m	1270	1310	1265	
Sulfur	ppm	ASTM D5185m	2060	3586	3679	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	4	3	
Sodium	ppm	ASTM D5185m		5	3	
Potassium	ppm	ASTM D5185m	>20	4	3	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.0	
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	15.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	9.3	
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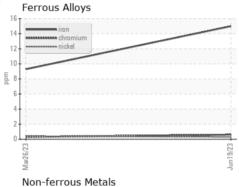
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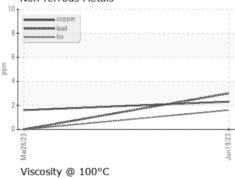


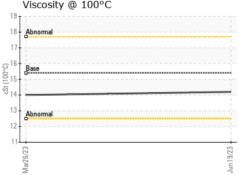
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
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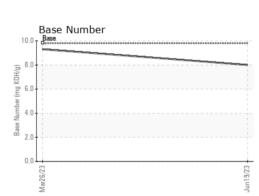
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Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: 05885477 Unique Number : 10535960

: GFL0084533 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 Diagnosed : 30 Jun 2023

Diagnostician : Wes Davis

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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