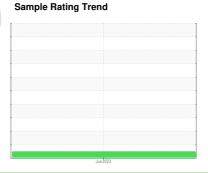


OIL ANALYSIS REPORT



Machine Id 922009 Component **Diesel Engine**

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





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

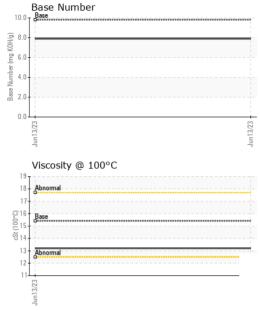
Fluid Condition

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

SAMPLE INFOR Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Glycol	hrs hrs	Client Info	limit/base	current GFL0067009 13 Jun 2023 21209 0 Changed NORMAL	history1	history2
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Glycol	hrs	Client Info Client Info Client Info Client Info		13 Jun 2023 21209 0 Changed	 	
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Glycol	hrs	Client Info Client Info Client Info		21209 0 Changed		
Oil Age Oil Changed Sample Status CONTAMINAT Fuel Glycol	hrs	Client Info Client Info		0 Changed		
Oil Age Oil Changed Sample Status CONTAMINAT Fuel Glycol		Client Info		Changed		
Oil Changed Sample Status CONTAMINAT Fuel Glycol	ION		limit/base			
Sample Status CONTAMINAT Fuel Glycol	ION	method	limit/base			
Fuel Glycol	ION	method	limit/base			
Glycol					history1	history2
		WC Method	>3.0	<1.0		
		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	14		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	4		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	34		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	73		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	944		
Calcium	ppm	ASTM D5185m	1070	1277		
Phosphorus	ppm	ASTM D5185m	1150	1032		
Zinc	ppm	ASTM D5185m	1270	1236		
Sulfur	ppm	ASTM D5185m	2060	3708		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	5		
Silicon	PPIII			4		
	ppm	ASTM D5185m		7		
Sodium		ASTM D5185m ASTM D5185m	>20	4		
Sodium	ppm		>20 limit/base		history1	history2
Sodium Potassium INFRA-RED	ppm	ASTM D5185m		4		
Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m method	limit/base	4 current	history1	history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm	ASTM D5185m method *ASTM D7844	limit/base	current 0.2	history1	history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20	4 current 0.2 8.5	history1	history2
Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30	4 current 0.2 8.5 18.4	history1 	history2



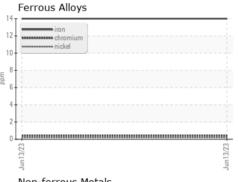
OIL ANALYSIS REPORT

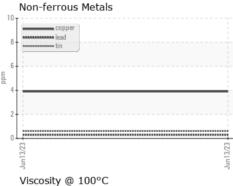


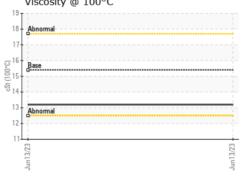
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

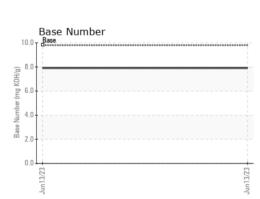
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	 	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10563518 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0067009 : 05902162

Received Diagnosed

: 19 Jul 2023 : 19 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 916 - Greenbay HC

1799 County Trunk PP DePere, WI US 54115

Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)