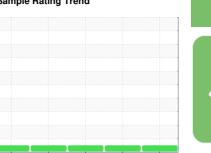


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **812001** 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

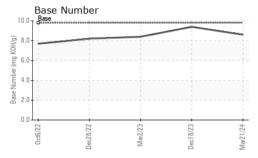
Fluid Condition

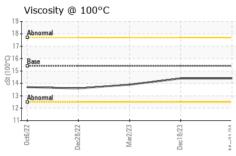
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Oct2022	Deczuzz	Mar2023 Dec2023	Mar2024		
SAMPLE INFO	ORMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108733	GFL0105709	GFL0073872	
Sample Date		Client Info		21 Mar 2024	18 Dec 2023	02 Mar 2023	
Machine Age	hrs	Client Info		7396	5450	4565	
Oil Age	hrs	Client Info		0	4565	4065	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status		Ollone lino		NORMAL	NORMAL	NORMAL	
CONTAMINA	ATION	method	limit/base	current	history1	history2	
	ATION						
Fuel		WC Method	>3.0	<1.0 NEG	<1.0	<1.0	
Water			>0.2		NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	8	4	7	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	3	
Lead	ppm	ASTM D5185m	>40	0	0	1	
Copper	ppm		>330	0	12	<1	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
Vanadium	ppm	ASTM D5185m	7.0	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES	ррііі		limit/base				
		method		current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	18	3	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	60	58	
Manganese	ppm	ASTM D5185m		0	0	1	
Magnesium	ppm	ASTM D5185m	1010	1013	875	1004	
Calcium	ppm	ASTM D5185m	1070	1161	996	1085	
Phosphorus	ppm	ASTM D5185m	1150	1119	853	999	
Zinc	ppm	ASTM D5185m	1270	1344	1116	1342	
Sulfur	ppm	ASTM D5185m	2060	3995	2835	3461	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	2	9	4	
Sodium	ppm	ASTM D5185m		1	0	4	
Potassium	ppm	ASTM D5185m	>20	<1	1	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.3	0.1	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.0	4.5	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.8	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.3	15.0	
Base Number (BI		ASTM D2896		8.6	9.4	8.4	
Dasc Nullibel (DI	ing Norry	AUTIVI DZ030	0.0	0.0	J.T	0.7	



OIL ANALYSIS REPORT

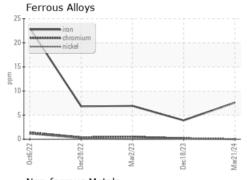


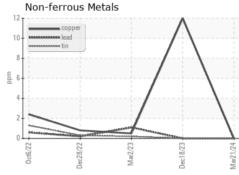


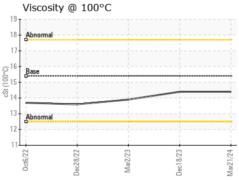
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

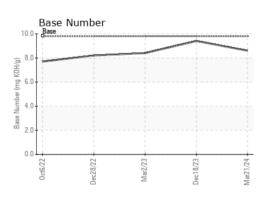
	ERITES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.4	13.9

GRAPHS











Certificate L2367

Laboratory Sample No.

: GFL0108733 Lab Number : 06127565 Unique Number : 10941716 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Mar 2024 **Tested** : 26 Mar 2024

Diagnosed : 26 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)