

OIL ANALYSIS REPORT

Sample Rating Trend



929057 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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

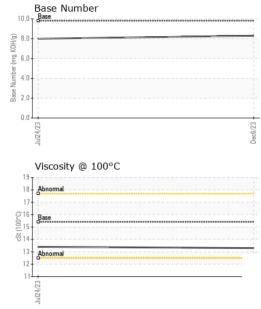
Fluid Condition

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

GAL)			Jul2023	Dec 2 023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066982	GFL0066947	
Sample Date		Client Info		06 Dec 2023	24 Jul 2023	
Machine Age	hrs	Client Info		11792	10798	
Oil Age	hrs	Client Info		456	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	4	6	
Chromium	ppm	ASTM D5185m	>4	0	0	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	2	2	
Lead	ppm	ASTM D5185m	>45	0	<1	
Copper	ppm	ASTM D5185m	>85	<1	<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	history1	history2
Boron	ppm	ASTM D5185m	0	8	5	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	910	931	
Calcium	ppm	ASTM D5185m	1070	1024	1132	
Phosphorus Zinc	ppm	ASTM D5185m	1150 1270	1041 1241	1044	
Sulfur	ppm	ASTM D5185m ASTM D5185m	2060	3056	1270 3780	
CONTAMINAN		method	limit/base	current	history1	history2
		ASTM D5185m		2	3	,
Silicon Sodium	ppm	ASTM D5185m	>30	2	1	
Potassium	ppm	ASTM D5185m	>20	3	2	
INFRA-RED	le le	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.2	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.0	
(211)						



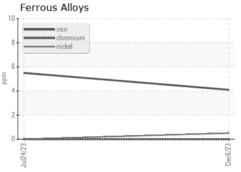
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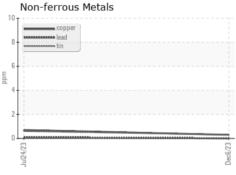


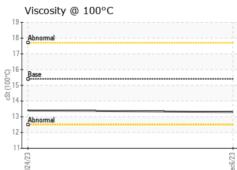
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

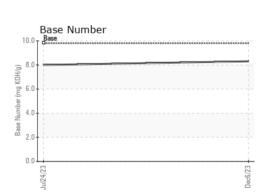
FLUID PROPE	ERITES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10815718 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066982 : 06049769

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved

: 03 Jan 2024 Diagnosed : 04 Jan 2024 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

* - 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)