

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **413132** 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

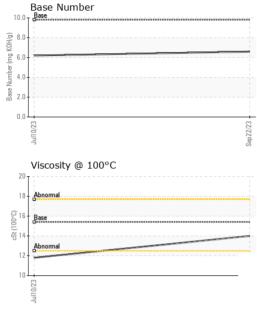
Fluid Condition

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

GAL)			Jul2023	Sep 2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094101	GFL0085455	
Sample Date		Client Info		22 Sep 2023	10 Jul 2023	
Machine Age	mls	Client Info		25651	15706	
Oil Age	mls	Client Info		25621	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.6	
Glycol		WC Method		NEG	NEG	
WEAR METAL	e	method	limit/base			history2
WEAD METAL	S			current	history1	HISTOLYZ
Iron	ppm	ASTM D5185m	>100	16	67	
Chromium	ppm	ASTM D5185m	>20	<1	2	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	5	17	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	5	13	
Tin	ppm	ASTM D5185m	>15	<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	<1	29	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	39	10	
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	1010	84	644	
Calcium	ppm	ASTM D5185m	1070	2314	1358	
Phosphorus	ppm	ASTM D5185m	1150	997	716	
Zinc	ppm	ASTM D5185m	1270	1191	825	
Sulfur	ppm	ASTM D5185m	2060	3527	2693	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	13	
Sodium	ppm	ASTM D5185m		<1	3	
Potassium	ppm	ASTM D5185m	>20	11	60	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	21.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7	17.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	6.2	



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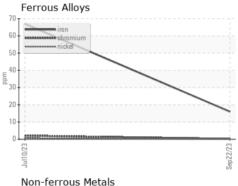


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

14.0

11.8

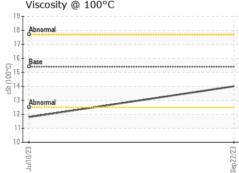
Visc @ 100°	С
GRAPHS	3

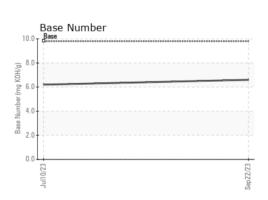


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ASTM D445 15.4

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Jul10/23	Sep22/23
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Viscosity @ 1009C	







Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: 05967344 Unique Number : 10673895

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094101 Received : 03 Oct 2023 Diagnosed : 05 Oct 2023

Diagnostician : Jonathan Hester

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)

GFL Environmental - 983 - Sugar Land Hauling

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