

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **213027** 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

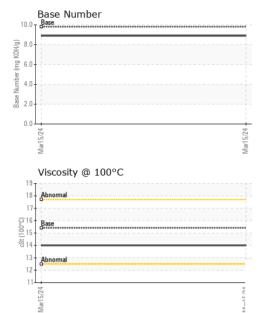
Fluid Condition

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

N SHP 15W40 (GAL)			Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093023		
Sample Date		Client Info		15 Mar 2024		
Machine Age	hrs	Client Info		22003		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>5	<1.0		
Nater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	27		
Chromium	ppm	ASTM D5185m	>5	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Γitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	5		
_ead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	5		
Γin	ppm	ASTM D5185m	>5	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	1008		
Calcium	ppm	ASTM D5185m	1070	1203		
Phosphorus	ppm	ASTM D5185m	1150	1079		
Zinc	ppm	ASTM D5185m	1270	1299		
Sulfur	ppm	ASTM D5185m	2060	3725		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	12		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	7.4		
			00	40 =		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7		
Sulfation FLUID DEGRAI			>30 limit/base	current	history1	
Sulfation FLUID DEGRAI Dxidation					history1	history2



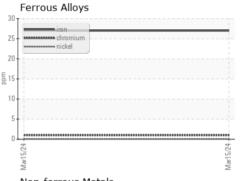
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar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

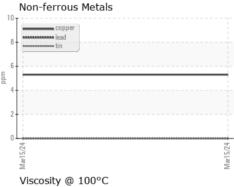
14.0

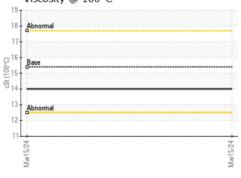
Visc @	100°C
GRA	PHS

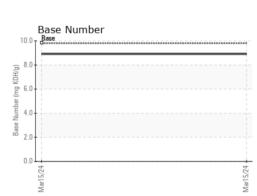


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ASTM D445 15.4









Certificate L2367

Laboratory Sample No. Lab Number : 06132947

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0093023

Unique Number : 10952412

Received **Tested** Diagnosed

: 29 Mar 2024 : 01 Apr 2024 : 01 Apr 2024 - Wes Davis

GFL Environmental - 413 - Whiteland Hauling

2959 S EMERSON AVE WHITELAND, IN US 46184

Contact: Christyan Trent-Proctor ctrentproctor@gflenv.com

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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