

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 913125 Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

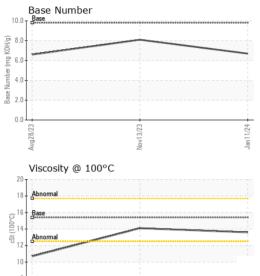
Fluid Condition

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)	Auj	2023	Nov2023 Jan20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096895	GFL0091698	GFL009171
Sample Date		Client Info		11 Jan 2024	13 Nov 2023	28 Aug 2023
Machine Age	hrs	Client Info		0	0	665
Oil Age	hrs	Client Info		600	600	665
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	0.4
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	25	20	66
Chromium	ppm	ASTM D5185m	>20	1	0	2
Vickel	ppm	ASTM D5185m	>5	13	4	10
Γitanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
_ead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	51	8	111
Γin	ppm	ASTM D5185m	>15	1	<1	5
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	110
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	59	120
Manganese	ppm	ASTM D5185m	0	1	0	5
Magnesium	ppm	ASTM D5185m	1010	893	1018	798
Calcium	ppm	ASTM D5185m	1070	1107	1123	1618
Phosphorus	ppm	ASTM D5185m	1150	899	1072	772
Zinc	ppm	ASTM D5185m	1270	1136	1397	985
Sulfur	ppm	ASTM D5185m	2060	2719	3052	2619
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	△ 56
Sodium	ppm	ASTM D5185m		0	<1	4
Potassium	ppm	ASTM D5185m	>20	3	0	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.2	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	24.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
2	Abo/1mm	*ASTM D7414	0.5	400	140	04.4
Oxidation	Abs/.1mm	A511VI D7414	>25	16.2	14.8	24.1



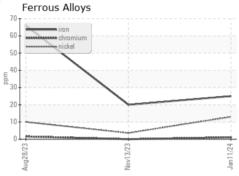
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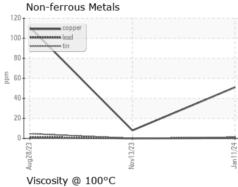


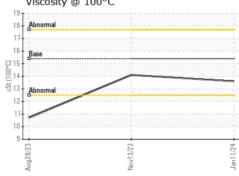
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

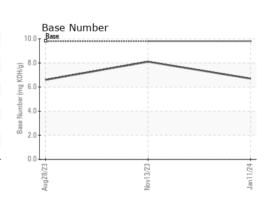
FLUID FNOFI	EULIES	memou			Tilstory	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.1	1 0.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10850381

: GFL0096895 : 06073704

Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024

Diagnosed : 31 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR FORT WAYNE, IN

US 46806 Contact: Stephanie Burton

stephanieburton@gflenv.com

T: (260)747-5037

* - 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)