

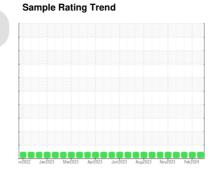
OIL ANALYSIS REPORT



(62A0YN3) ALEXANDER CITY 411000-411000

Diesel Engine

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





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

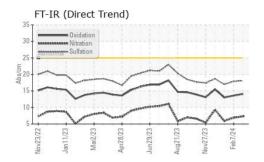
Fluid Condition

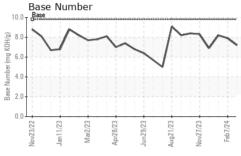
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

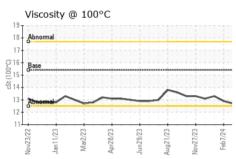
SAMPLE INFORM	MOLTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089932	GFL0080714	GFL0080727
Sample Date		Client Info		25 Mar 2024	07 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info		8855	8658	8284
Oil Age	hrs	Client Info		3019	2822	2448
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	8	8	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	1
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	1	3	4
Tin	ppm	ASTM D5185m	>15	0	2	<1
Vanadium	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	8	14	16
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	71	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	958	1089	879
Calcium	ppm	ASTM D5185m	1070	1138	1207	1012
Phosphorus	ppm	ASTM D5185m	1150	1039	1115	1011
Zinc	ppm	ASTM D5185m	1270	1259	1487	1186
Sulfur	ppm	ASTM D5185m	2060	3712	3551	3097
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	2	4	2
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	0.3	0.2	0.1
Soot %						
Soot % Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.9	5.9
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		7.3 18.1	6.9 17.9	5.9 17.0
Nitration	Abs/.1mm					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.9	17.0



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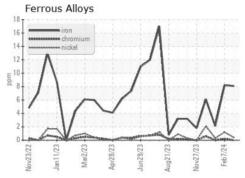




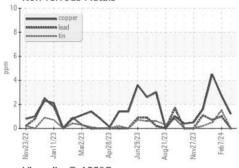
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

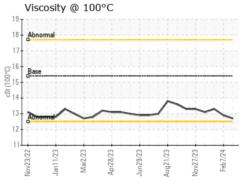
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.9	13.3

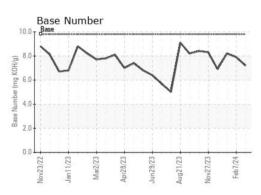
GRAPHS















Laboratory Sample No. Lab Number : 06139736 Unique Number : 10964544

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089932

Received : 05 Apr 2024 **Tested** : 06 Apr 2024 Diagnosed

: 06 Apr 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee Multiple Sites Montgomery, AL US 36108

Contact: RICHARD HATFIELD rhatfield@gflenv.com

Test Package : FLEET Certificate 12367 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)

Report Id: GFL172 [WUSCAR] 06139736 (Generated: 04/06/2024 04:32:12) Rev: 1

Submitted By: Lisa Reeves

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