

OIL ANALYSIS REPORT

(62A1N88) ALEXANDER CITY 10818

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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

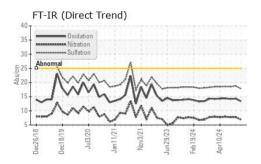
Fluid Condition

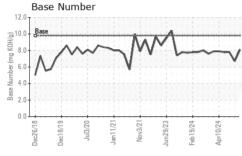
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

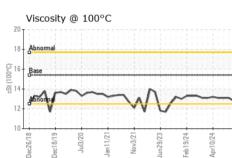
SAMPLE INFORM	AATION	method	limit/base	current	history1	history2
	IATION		IIIIIIIIIIII			GFL0091347
Sample Number		Client Info		GFL0079733 23 May 2024	GFL0079736 09 May 2024	17 Apr 2024
Sample Date Machine Age	hrs	Client Info		16909	5749	16624
Oil Age	hrs	Client Info		2507	2419	2222
Oil Changed	1115	Client Info		Not Changd	N/A	N/A
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
·	ON		12 - 24 //			
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	3	9	10
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	3	2
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	0	4	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	9	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	862	817	832
Calcium	ppm	ASTM D5185m	1070	978	1020	1005
Phosphorus	ppm	ASTM D5185m	1150	966	942	870
Zinc	ppm	ASTM D5185m	1270	1141	1128	1051
Sulfur	ppm	ASTM D5185m	2060	3239	2938	3060
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		11	8	29
Potassium	ppm	ASTM D5185m	>20	<1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.8	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.8	18.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.3	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	6.7	7.8
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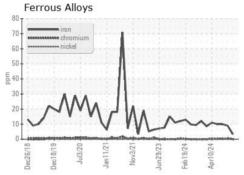


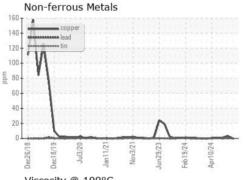


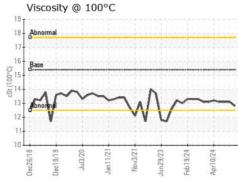
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

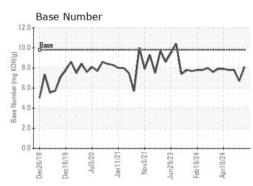
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.1	13.1

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11048820 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0079733 Lab Number : 06192068

Received : 28 May 2024 **Tested**

: 02 Jun 2024 Diagnosed : 02 Jun 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee Multiple Sites

Montgomery, AL US 36108

Contact: BRANDON HURST brandonhurst@gflenv.com T:

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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