

OIL ANALYSIS REPORT

Sample Rating Trend



Area (ML7082)

427101-54 Diesel Engine

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

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	SAMPLE INFOF	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0113708	GFL0110571	GFL0110596
service interval to monitor.	Sample Date		Client Info		27 Mar 2024	19 Mar 2024	27 Feb 2024
	Machine Age	hrs	Client Info		17067	665092	600
ates are normal.	Oil Age	hrs	Client Info		0	600	600
	Oil Changed		Client Info		N/A	Changed	Not Changd
of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
es that there is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
er service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	1	3	2
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	2
	Lead	ppm	ASTM D5185m	>40	0	1	0
	Copper	ppm	ASTM D5185m	>330	1	6	5
	Tin	ppm	ASTM D5185m	>15	0	2	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	Cadmium	ppm	ASTM D5185m		0	<1	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	1	4	5
	Barium	ppm	ASTM D5185m	0	0	1	0
	Molybdenum	ppm	ASTM D5185m	60	60	62	60
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1052	913	965
	Calcium	ppm	ASTM D5185m	1070	1121	1072	1033
	Phosphorus	ppm	ASTM D5185m	1150	1137	954	1112
	Zinc	ppm	ASTM D5185m	1270	1321	1150	1263
	Sulfur	ppm	ASTM D5185m	2060	3971	2948	3459
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	4	4
	Sodium	ppm	ASTM D5185m		<1	0	1
	Potassium	ppm	ASTM D5185m	>20	0	2	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	4.3	4.5	4.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	17.2	17.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	13.4	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	9.2	9.4

DIAGNOSIS

Recommendation

Resample at the next s

Wear

All component wear rat

Contamination

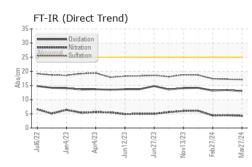
There is no indication of oil.

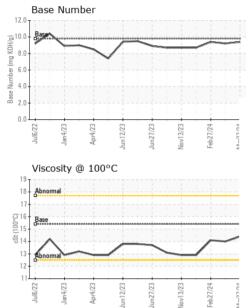
Fluid Condition

The BN result indicates alkalinity remaining in t oil is suitable for furthe



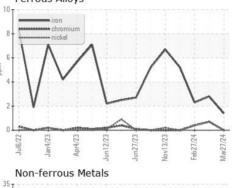
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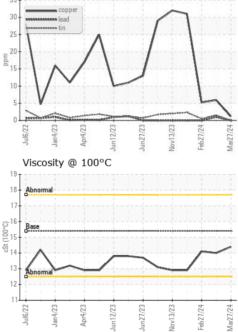




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.0	14.1
GRAPHS						

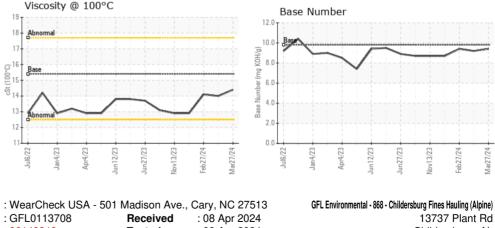
Ferrous Alloys





Received

Tested



: 08 Apr 2024 : 08 Apr 2024 - Wes Davis

Childersburg, AL US 35044 Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.com T:



Unique Number : 10965627 Diagnosed 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)

: GFL0113708

Report Id: GFL868 [WUSCAR] 06140819 (Generated: 04/08/2024 17:34:30) Rev: 1

Laboratory

Sample No.

Lab Number : 06140819

Submitted By: DARRIN WRIGHT

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