

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
811001
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

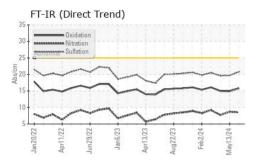
Fluid Condition

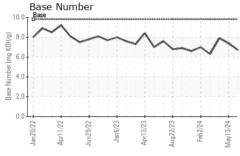
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

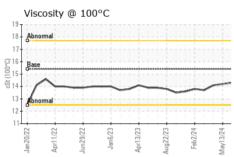
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113660	GFL0113651	GFL0113649
Sample Date		Client Info		21 May 2024	13 May 2024	03 May 2024
Machine Age	hrs	Client Info		8841	8784	59591
Oil Age	hrs	Client Info		57	385	9961
Oil Changed		Client Info		Changed	Changed	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
ron	ppm	ASTM D5185m	>120	5	15	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	- <1	0	1
			>330	<1	2	<1
Copper	ppm					
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	4	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	971	872	919
Calcium	ppm	ASTM D5185m	1070	1199	1026	1046
Phosphorus	ppm	ASTM D5185m	1150	1067	981	980
Zinc	ppm	ASTM D5185m	1270	1283	1173	1217
Sulfur	ppm	ASTM D5185m	2060	3662	3117	3389
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		2	5	3
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
INI INA-INED			>4	0.4	0.8	0.7
Soot %	%	*ASTM D7844	>4	0.4	0.0	0.7
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4	8.5	8.7	7.7
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	8.5	8.7	7.7
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.5 20.8	8.7 19.7	7.7 19.6



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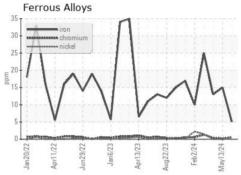


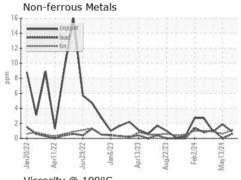


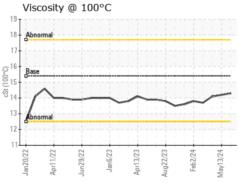
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

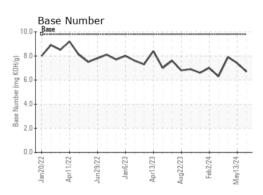
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	14.1

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11046688 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113660 Lab Number : 06189936

Received **Tested** Diagnosed

: 23 May 2024 : 25 May 2024

: 29 May 2024 - Sean Felton

GFL Environmental - 654S - Midlothian

12230 Deergrove Road Midlothian, VA

US 23112

Contact: Corbin Umphlet cumphlet@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)

Report Id: GFL654S [WUSCAR] 06189936 (Generated: 05/29/2024 14:33:57) Rev: 1

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