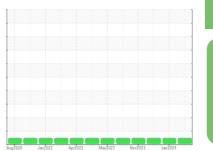


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **825023-146**

Diesel Engine

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

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.

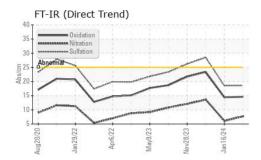
Fluid Condition

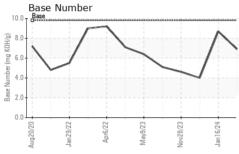
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

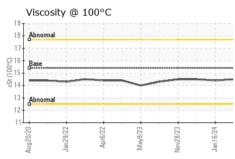
LTR)		Aug2020	Jan2022 Apr2022	May2023 Nov2023 Ja	n2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113630	GFL0103841	GFL0103840
Sample Date		Client Info		01 Apr 2024	16 Jan 2024	03 Jan 2024
Machine Age	hrs	Client Info		2037	1613	170078
Oil Age	hrs	Client Info		435	530	578
Oil Changed		Client Info		Not Changd	Not Changd	Changed
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	10	7	63
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	13
Lead	ppm	ASTM D5185m	>40	0	<1	5
Copper	ppm	ASTM D5185m	>330	<1	<1	4
Tin	ppm	ASTM D5185m	>15	0	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	56	65
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	1010	1020	1059	1047
Calcium	ppm	ASTM D5185m	1070	1160	1071	1177
Phosphorus	ppm	ASTM D5185m	1150	1073	1118	1122
Zinc	ppm	ASTM D5185m	1270	1347	1355	1452
Sulfur	ppm	ASTM D5185m	2060	3933	3453	2614
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	10
Sodium	ppm	ASTM D5185m	00	2	2	9
Potassium	ppm	ASTM D5185m		1	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.4	2.6
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.1	13.6
Sulfation	Abs/.1mm	*ASTM D7415		18.6	18.5	28.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	14.4	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	8.7	4.0



OIL ANALYSIS REPORT



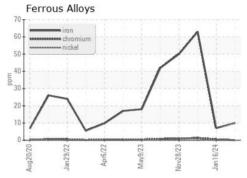




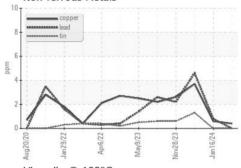
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

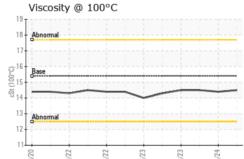
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.4	14.5

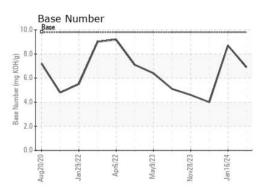
GRAPHS















Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113630 Lab Number : 06142098 Unique Number : 10966906

Test Package : FLEET

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

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] 06142098 (Generated: 04/09/2024 15:50:25) Rev: 1

Submitted By: GFL654,GFL654S,GFL659 - Chuck Warr

F: