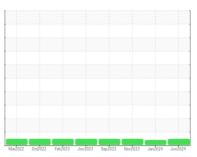


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **727115-07** Component

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

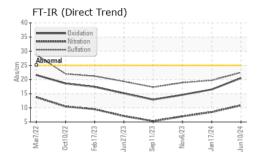
Fluid Condition

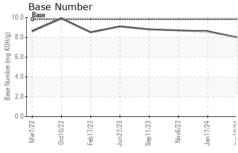
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

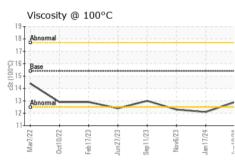
Mad2022 Oct2022 Feb2023 Jun2023 Sup2023 New2023 Jun2024 Jun2024 Jun2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100020	GFL0094879	GFL0094852
Sample Date		Client Info		10 Jun 2024	17 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		18118	17886	17806
Oil Age	hrs	Client Info		500	519	439
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.5
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	>100	37	13	9
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	2	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
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	7	7	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	51	59	62
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	820	882	916
Calcium	ppm	ASTM D5185m	1070	971	1008	1072
Phosphorus	ppm	ASTM D5185m	1150	895	931	930
Zinc	ppm	ASTM D5185m	1270	1110	1212	1221
Sulfur	ppm	ASTM D5185m	2060	2904	2872	3267
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		3	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.9	8.5	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	19.7	18.9
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	16.5	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.6	8.7



OIL ANALYSIS REPORT



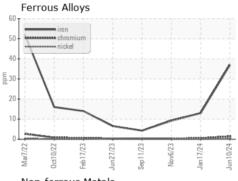


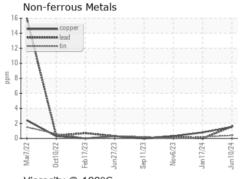


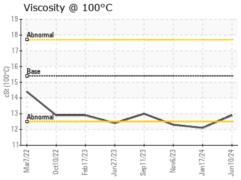
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

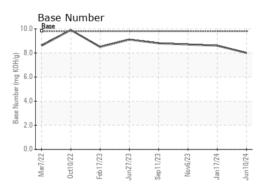
FLUID FROF		memod			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.1	12.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06211287 Unique Number : 11084151

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0100020

Test Package : FLEET

Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Wes Davis

GFL Environmental - 625 - Harrison Hauling 2480 S Clare Ave Clare, MI

US 48617 Contact: Glenda Standen gstanden@gflenv.com

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)

T:

F: