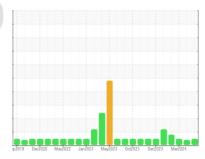


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 928074-205262

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

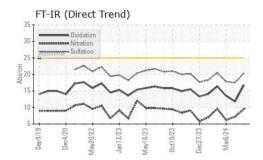
Fluid Condition

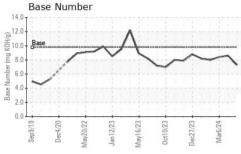
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

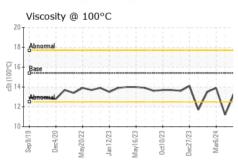
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118274	GFL0118162	GFL0109141
Sample Date		Client Info		05 May 2024	25 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info		19030	18874	18728
Oil Age	hrs	Client Info		700	300	700
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.4	8.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24	19	5
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	6	3
Lead	ppm	ASTM D5185m	>40	4	<1	0
Copper	ppm	ASTM D5185m	>330	2	1	0
Tin	ppm	ASTM D5185m	>15	1	0	<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	<1	87	0
Barium	ppm	ASTM D5185m	0	1	12	0
Molybdenum	ppm	ASTM D5185m	60	65	3	58
Manganese	ppm	ASTM D5185m	0	<1	2	0
Magnesium	ppm	ASTM D5185m	1010	997	801	887
Calcium	ppm	ASTM D5185m	1070	1133	1442	1020
Phosphorus	ppm	ASTM D5185m	1150	1008	819	1011
Zinc	ppm	ASTM D5185m	1270	1275	927	1161
Sulfur	ppm	ASTM D5185m	2060	3063	4002	3071
CONTAMINANTS method limit/base current history1 history2						
Silicon	ppm	ASTM D5185m	>25	6	8	4
Sodium	ppm	ASTM D5185m		13	7	6
Potassium	ppm	ASTM D5185m	>20	5	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.2	6.2
Sulfation	Abs/.1mm	*ASTM D7415		20.4	17.5	17.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	11.8	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	8.6	8.4
-230 Hambol (DIV)	ang nonng		3.0	7.0	0.0	0. 1



OIL ANALYSIS REPORT



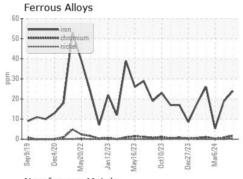


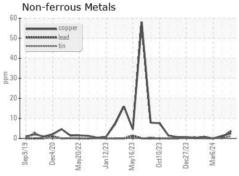


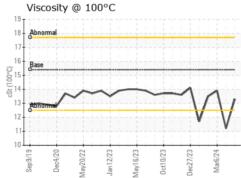
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

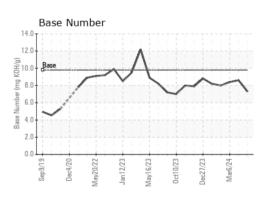
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	11.2	13.9

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118274

Lab Number : 06191818 Unique Number : 11048570 Received : 28 May 2024 **Tested** : 29 May 2024 Diagnosed

: 29 May 2024 - Wes Davis

GFL Environmental - 822 - Springfield Hauling

2120 West Bennett Street Springfield, MO US 65807

Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

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)