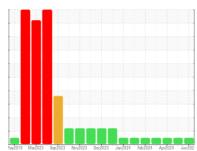


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

921047-260381

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

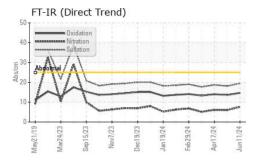
Fluid Condition

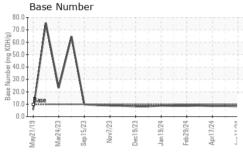
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

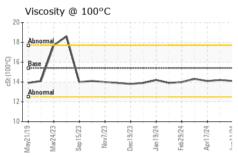
5AL) 1m/2019 Mm/2023 Sm/2023 Nov2023 One2023 Jm/2024 Feb/2024 Apr2024 Jun/202						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122821	GFL0118829	GFL0118762
Sample Date		Client Info		11 Jun 2024	16 May 2024	17 Apr 2024
Machine Age	hrs	Client Info		7843	7695	7541
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Vater		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	>100	13	6	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	8	4	3
_ead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
/anadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	1	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	58
Manganese	ppm		0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	949	897	899
Calcium	ppm	ASTM D5185m	1070	1071	1075	1037
Phosphorus	ppm	ASTM D5185m	1150	1091	1056	1082
Zinc	ppm	ASTM D5185m	1270	1244	1194	1202
Sulfur	ppm	ASTM D5185m	2060	3149	3234	3336
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		17	8	8
Potassium	ppm	ASTM D5185m	>20	5	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.0	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.1	18.7
FLUID DEGRAI	DATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.6	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.5	8.4



OIL ANALYSIS REPORT



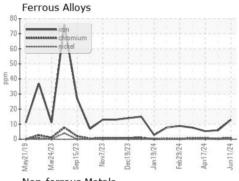


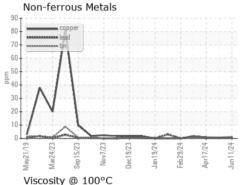


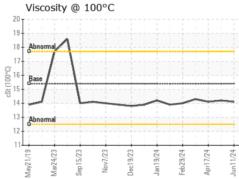
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

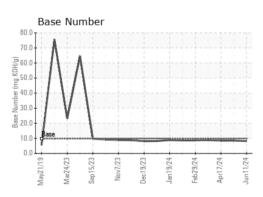
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.2	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0122821 Lab Number : 06212971 Unique Number : 11085835

Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 17 Jun 2024 Received

Tested : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@gflenv.com

* - 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: