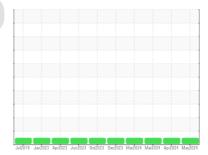


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 422030-402328

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

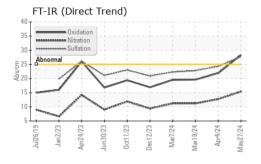
Fluid Condition

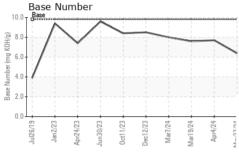
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

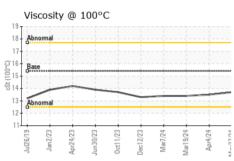
une)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123154	GFL0104795	GFL0104901
Sample Date		Client Info		27 May 2024	04 Apr 2024	19 Mar 2024
Machine Age	hrs	Client Info		33371	33222	33168
Oil Age	hrs	Client Info		33222	33168	33168
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	20	59	41
Chromium	ppm	ASTM D5185m	>4	<1	3	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	7	5
Lead	ppm	ASTM D5185m	>45	2	5	2
Copper	ppm	ASTM D5185m	>85	<1	2	2
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	69	68
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	972	1060	986
Calcium	ppm	ASTM D5185m	1070	1131	1211	1145
Phosphorus	ppm	ASTM D5185m	1150	1057	1118	1130
Zinc	ppm	ASTM D5185m	1270	1269	1374	1301
Sulfur	ppm	ASTM D5185m	2060	3535	3413	3082
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	0	12	10
Sodium	ppm	ASTM D5185m		6	18	25
Potassium	ppm	ASTM D5185m	>20	4	7	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	15.4	12.7	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7	24.3	22.8
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.3	21.9	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	7.7	7.6
= 200 . Idilibor (DIV)	91101119	. 10 . 111 02000	5.0	V.7		



OIL ANALYSIS REPORT



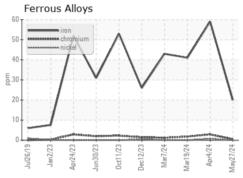


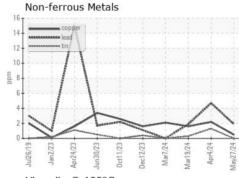


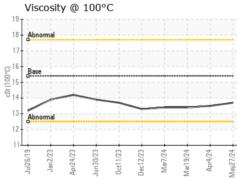
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

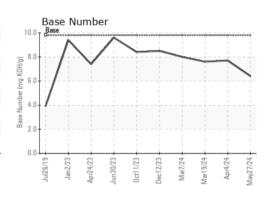
FLUID PROPI	EKITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	13.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0123154 Lab Number : 06198824 Unique Number : 11060947 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Jonathan Hester

GFL Environmental - 820 - Joplin Hauling 3700 West 7th Street Joplin, MO

US 64801 Contact: James Jarrett jjarrett@gflenv.com T: (417)310-2802

* - 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)