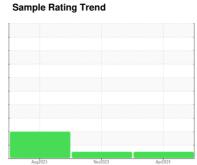


OIL ANALYSIS REPORT



NORMAL



Machine Id 929119 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

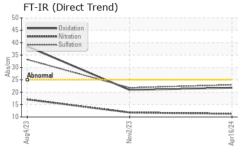
Fluid Condition

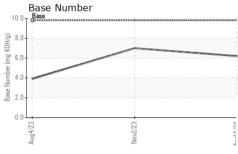
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

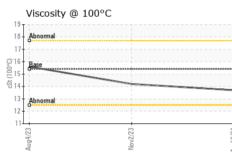
āAL)		Au	n ² 023	Nov2023 Apr20	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116523	GFL0084772	GFL0084849
Sample Date		Client Info		16 Apr 2024	02 Nov 2023	04 Aug 2023
Machine Age	mls	Client Info		138958	12875	12217
Oil Age	mls	Client Info		12875	12217	200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	>100	35	39	<u></u> 108
Chromium	ppm	ASTM D5185m	>20	1	1	3
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	9	9
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	8	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	51	25
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	1010	954	917	828
Calcium	ppm	ASTM D5185m	1070	1073	1075	1557
Phosphorus	ppm	ASTM D5185m	1150	1007	1050	832
Zinc	ppm	ASTM D5185m	1270	1236	1237	1088
Sulfur	ppm	ASTM D5185m	2060	3119	2911	3366
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	12
Sodium	ppm	ASTM D5185m		5	6	4
Potassium	ppm	ASTM D5185m	>20	<1	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	1
Nitration	Abs/cm	*ASTM D7624	>20	11.3	11.8	17.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.8	33.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	20.9	38.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.2	7.0	△ 3.9
,	0 0					



OIL ANALYSIS REPORT



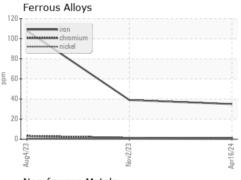


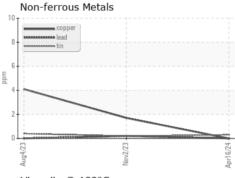


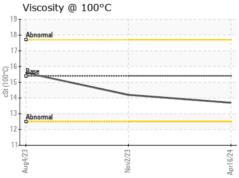
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

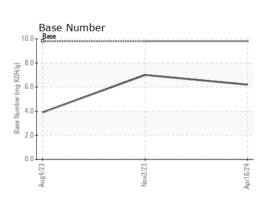
FLUID PROP	EHILO	method			riistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.2	15.6

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0116523 Lab Number : 06151437 Unique Number : 10981515 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested**

: 18 Apr 2024 Diagnosed : 18 Apr 2024 - Wes Davis

GFL Environmental - 959A - Urbana HC

4808 cunningham Rd Urbana, IL US 61802

Contact: Kristine Tryon Ktryon@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)

F: