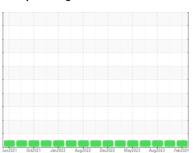


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 729072-27 Component

Diesel Engine

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

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

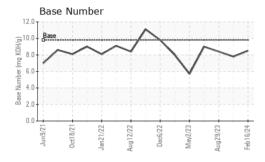
Fluid Condition

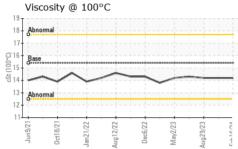
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jun2021 UC	IZUZI Janzuzz Augzu	22 Dec2022 May2023 Aug20		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103122	GFL0091984	GFL0091960
Sample Date		Client Info		16 Feb 2024	15 Nov 2023	29 Aug 2023
Machine Age	hrs	Client Info		9619	9391	9185
Oil Age	hrs	Client Info		228	206	311
Oil Changed		Client Info		Changed	Changed	Changed
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	>80	13	24	16
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	3	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	3	4
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>150	<1	7	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
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	2	2	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	58
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	956	1001	991
Calcium	ppm	ASTM D5185m	1070	1024	1065	1073
Phosphorus	ppm	ASTM D5185m	1150	1005	952	1069
Zinc	ppm	ASTM D5185m	1270	1218	1272	1358
Sulfur	ppm	ASTM D5185m	2060	2889	2936	3923
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	9	6
Sodium	ppm	ASTM D5185m	720	4	6	3
Potassium	ppm	ASTM D5185m	>20	0	<1	1
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.0	10.2	8.4
						18.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.6	
FLUID DEGRA	NOITAC		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	17.1	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	7.8	8.4



OIL ANALYSIS REPORT

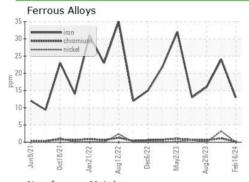


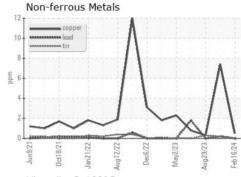


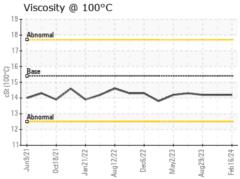
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

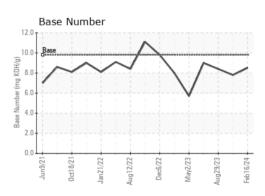
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	14.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06092891 Unique Number : 10885744 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103122 Received : 19 Feb 2024 **Tested** : 20 Feb 2024

Diagnosed : 20 Feb 2024 - Wes Davis

GFL Environmental - 683 - Ruckersville Hauling 261 INDUSTRIAL DR

Ruckersville, VA US 22698 Contact: Jaf Finney

jfinney@gflenv.com T: (434)990-4972

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)