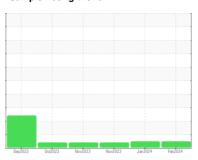


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **713025**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

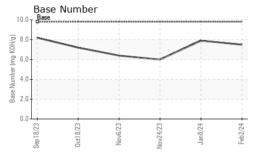
Fluid Condition

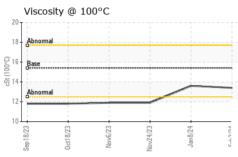
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR Sample Number Sample Date Machine Age Oil Age Oil Changed	MATION mls	Client Info	limit/base	current	history1	history2
Sample Date Machine Age Oil Age Oil Changed	mls					
Machine Age Oil Age Oil Changed	mls	Client Info		GFL0104956	GFL0088138	GFL0088218
Oil Age Oil Changed	mls	Client Info		02 Feb 2024	08 Jan 2024	24 Nov 2023
Oil Changed		Client Info		12707	11392	7824
	mls	Client Info		0	0	0
Cample Ctatus		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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
ron	ppm	ASTM D5185m	>90	17	13	38
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	<1	13
Tin	ppm	ASTM D5185m	>15	<1	<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	0	25
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	60	58	58	52
Manganese	ppm	ASTM D5185m	0	<1	<1	5
Magnesium	ppm	ASTM D5185m	1010	928	1002	899
Calcium	ppm	ASTM D5185m	1070	1003	1083	1387
Phosphorus	ppm	ASTM D5185m	1150	998	1046	802
Zinc	ppm	ASTM D5185m	1270	1181	1282	1071
Sulfur	ppm	ASTM D5185m	2060	2865	3176	2752
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm		>25	4	3	13
Sodium	ppm	ASTM D5185m		4	3	5
Potassium	ppm	ASTM D5185m	>20	1	1	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.4	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.5	23.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.7	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.9	6.0



OIL ANALYSIS REPORT

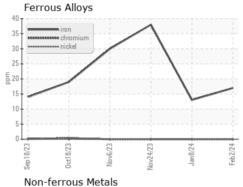


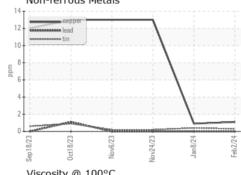


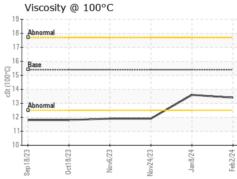
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

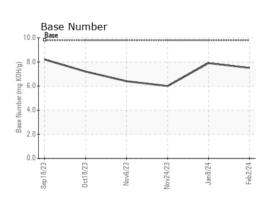
FLUID PROPI	ERIIES	memoa			riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	11.9

GRAPHS













Laboratory Sample No.

Lab Number : 06097535 Unique Number: 10890388 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104956 Received : 22 Feb 2024 **Tested**

Diagnosed

: 23 Feb 2024 : 23 Feb 2024 - Wes Davis

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)