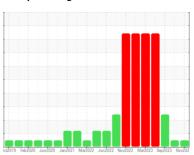


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **829067-101271**

Component

Diesel Engine

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

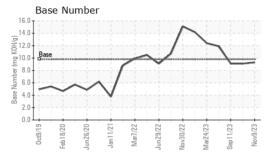
Fluid Condition

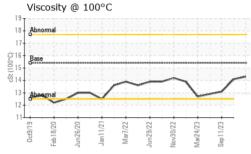
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

JAL)		lct2019 Feb 202	0 Jun2020 Jan2021 Mar2	022 Jun2022 Nov2022 Mar2023 Se	p2023 Nov202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095318	GFL0095324	GFL0081466
Sample Date		Client Info		09 Nov 2023	21 Sep 2023	11 Sep 2023
Machine Age	hrs	Client Info		0	11043	10969
Oil Age	hrs	Client Info		0	650	650
Oil Changed		Client Info		Not Changd	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	13	53
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	6
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	4	22	127
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	8
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	65	62	73
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	953	975	829
Calcium	ppm	ASTM D5185m	1070	1095	1128	1501
Phosphorus	ppm	ASTM D5185m	1150	1055	1007	1090
Zinc	ppm	ASTM D5185m	1270	1238	1272	1394
Sulfur	ppm	ASTM D5185m	2060	3184	3734	3688
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	10
Sodium	ppm	ASTM D5185m		10	31	<u></u> 148
Potassium	ppm	ASTM D5185m	>20	8	17	△ 94
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	1.6
Nitration	Abs/cm	*ASTM D7624	>20	5.1	5.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.6	24.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	13.6	18.6
Base Number (BN)	mg KOH/g		9.8	9.3	9.1	9.1
	39					



OIL ANALYSIS REPORT



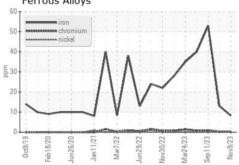


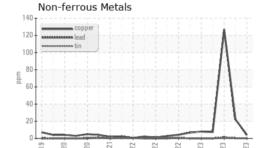
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

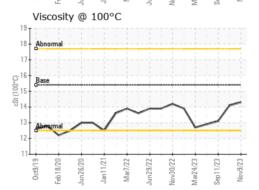
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.1	13.1

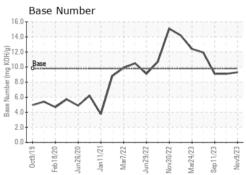
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0095318 : 06005233 : 10738995 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 : 13 Nov 2023 : 14 Nov 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 893 - OK East Hauling

2100 Lilly Street Seminole, OK US 74868

Contact: Roger Barlow rbarlow@gflenv.com T: (405)204-6183

* - 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)