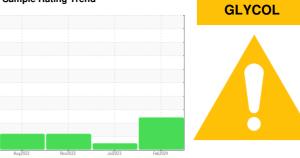


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 921023 Component

Diesel Engine Fluid

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

		-	Aug202			њ2024	
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0098090	GFL0071286	GFL0059828
We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		26 Feb 2024	25 Jul 2023	06 Nov 2022
	Machine Age	hrs	Client Info		30204	28669	0
	Oil Age	hrs	Client Info		30204	28669	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	NORMAL	ATTENTION
Vear Il component wear rates are normal.	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Contamination	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
odium and/or potassium levels are high.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	25	8	54
	Chromium	ppm	ASTM D5185m	>20	2	<1	1
	Nickel	ppm	ASTM D5185m	>5	3	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	0	4
	Lead	ppm	ASTM D5185m		2	<1	<1
	Copper	ppm	ASTM D5185m		2	2	<1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		۔ <1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES	le le		limit/base			
			method			history1	history2
	Boron	ppm	ASTM D5185m		19	6	14
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	110	63	95
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	976	1002	857
	Calcium	ppm	ASTM D5185m	1070	1087	1098	1103
	Phosphorus	ppm	ASTM D5185m	1150	895	1066	877
	Zinc	ppm	ASTM D5185m	1270	1361	1285	1094
	Sulfur	ppm	ASTM D5185m		3098	3796	3183
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	14	4	6
	Sodium	ppm	ASTM D5185m		<u> </u>	49	64
	Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 39	7	11
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.5	0	3
	Nitration	Abs/cm	*ASTM D7624	>20	13.1	6.9	10.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.1	25.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	14.3	16
				-	-	-	-

Base Number (BN) mg KOH/g ASTM D2896 9.8

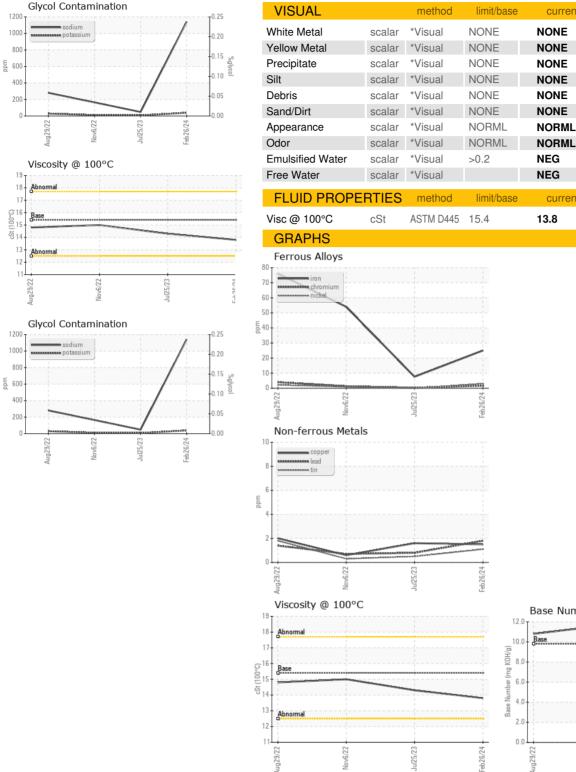
10.1

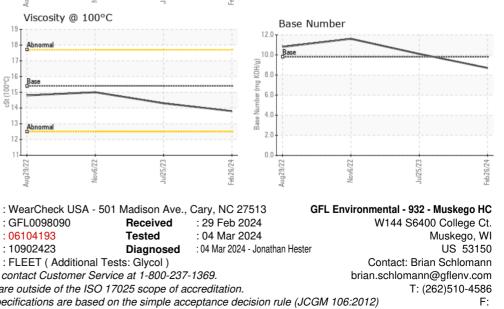
8.7

11.6



OIL ANALYSIS REPORT





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.3

current

NONE

NONE

NONE

NONE

NORML

curren

NEG

13.8

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

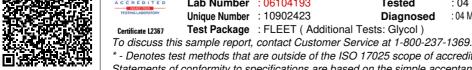
NORML

history

NEG

NEG

15.0



* - 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)

Test Package : FLEET (Additional Tests: Glycol)

Received

Diagnosed

Tested

: GFL0098090

Laboratory

Sample No.

Lab Number : 06104193

Unique Number : 10902423