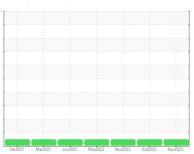


OIL ANALYSIS REPORT

Sample Rating Trend









423015 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

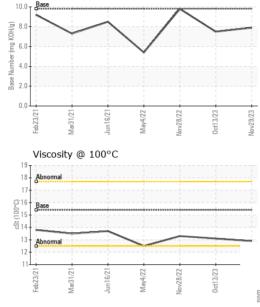
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Feb2021	Mar2021 Jun2021	May2022 Nov2022 Oct2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0023440	GFL0085528	GFL0044782
Sample Date		Client Info		29 Nov 2023	13 Oct 2023	28 Nov 2022
Machine Age	hrs	Client Info		26099	25851	24412
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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
Iron	ppm	ASTM D5185m	>120	5	16	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	2	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	3	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	51	58	52
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	781	860	881
Calcium	ppm	ASTM D5185m	1070	943	1028	1177
Phosphorus	ppm	ASTM D5185m	1150	931	981	993
Zinc	ppm	ASTM D5185m	1270	1105	1184	1310
Sulfur	ppm	ASTM D5185m	2060	3231	2873	3591
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	3
Sodium	ppm	ASTM D5185m		0	3	2
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.9	8.5	6.7
Sulfation	Abs/.1mm	*ASTM D7415		17.3	19.8	19.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	14.7	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	7.5	9.8
()	0 - 9					



Base Number

OIL ANALYSIS REPORT

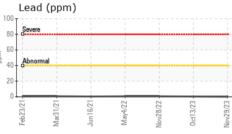


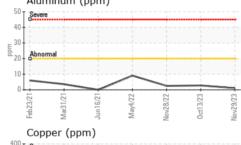
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
	DTIES	mothod	limit/bass	ourrent	hiotony1	hioton/2

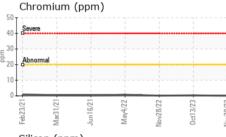
FLUID FNOF	ENTIES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.1	13.3

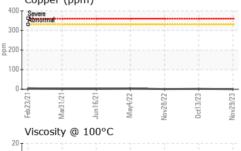
٠. ١		<u> </u>				
	(ppm))				
Severe						
J						
Abnor	mal					
701101	illen					
-						
712	21	21-	22	22	13	23
Feb23/21	Mar31/	Jun16/2	May4/2	Nov28/22	Oct13/23	Nov29/23
Alun	ninum	(ppm)				
Severe						
)						
Abnor						

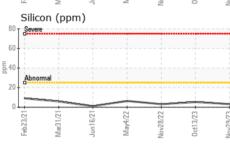
GRAPHS

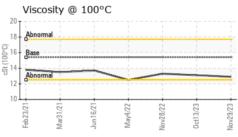


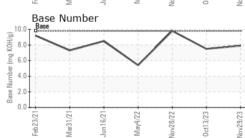














Certificate L2367

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

: 06033323

: GFL0023440 : 10783114 Test Package : MOB1+

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 13 Dec 2023 : 14 Dec 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 660S - Roanoke 2045 LEE HWY

Cloverdale, VA US 24077

Contact: DELBERT BEASLEY

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)

T:

F: