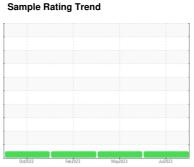


OIL ANALYSIS REPORT

San



NORMAL



Machine Id 929048

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.

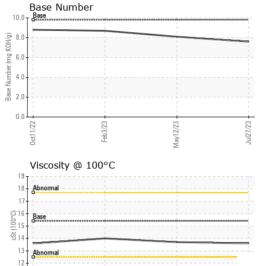
Fluid Condition

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

JAL)		Oct202	2 Feb 2023	May2023 J	ul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072501	GFL0072487	GFL0070285
Sample Date		Client Info		27 Jul 2023	12 May 2023	03 Feb 2023
Machine Age	hrs	Client Info		11816	11274	13383
Oil Age	hrs	Client Info		542	623	300
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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	>110	12	8	5
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	3	0
Lead	ppm	ASTM D5185m	>45	0	1	<1
Copper	ppm	ASTM D5185m	>85	0	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	50	5	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	74	57	59
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	892	992	885
Calcium	ppm	ASTM D5185m	1070	1485	1185	1043
Phosphorus	ppm	ASTM D5185m	1150	1041	966	991
Zinc	ppm	ASTM D5185m	1270	1309	1257	1176
Sulfur	ppm	ASTM D5185m	2060	3945	3446	3063
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	3	0
Sodium	ppm	ASTM D5185m		<1	2	<1
Potassium	ppm	ASTM D5185m	>20	4	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.1	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.4	18.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.5	14.3
Base Number (BN)	mg KOH/g		9.8	7.6	8.1	8.7
()	0 - 3					



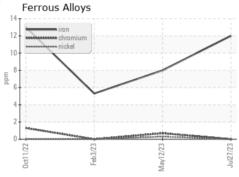
OIL ANALYSIS REPORT

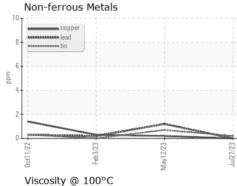


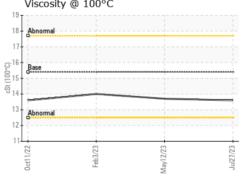
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

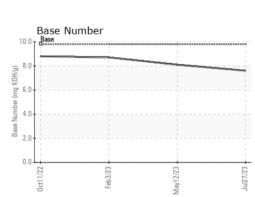
FLUID PROP	ERIIES	memoa			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10590317

: GFL0072501 : 05918403 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Aug 2023 Diagnosed : 09 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 912 - Fort Atkinson HC

1215 Klement St. Fort Atkinson, WI US 53538

Contact: LEONARD KOZLEUCHAR

leonard.kozleuchar@gflenv.com T: (262)210-6528

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)

Report Id: GFL912 [WUSCAR] 05918403 (Generated: 08/09/2023 04:35:55) Rev: 1

Submitted By: LEONARD KOZLEUCHAR

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