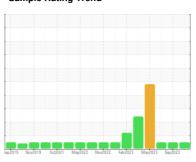


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **928074-205262**

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.

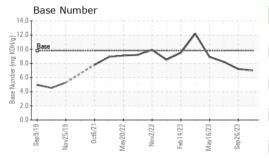
Fluid Condition

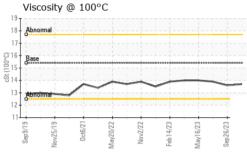
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

5AL) 3m2019 0m2019 0m2011 May2022 Nov2022 Feb2023 May2023 Smp2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098377	GFL0079338	GFL0079287
Sample Date		Client Info		10 Oct 2023	26 Sep 2023	07 Aug 2023
Machine Age	hrs	Client Info		17393	17281	16801
Oil Age	hrs	Client Info		700	150	600
Oil Changed		Client Info		Changed	N/A	Changed
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	>100	23	19	29
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	15	14	19
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	8	8	58
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	62	79
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	914	956	1159
Calcium	ppm	ASTM D5185m	1070	1000	1012	1271
Phosphorus	ppm	ASTM D5185m	1150	971	1038	1220
Zinc	ppm	ASTM D5185m	1270	1148	1255	1636
Sulfur	ppm	ASTM D5185m	2060	2638	2828	4501
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	6
Sodium	ppm	ASTM D5185m		44	39	58
Potassium	ppm	ASTM D5185m	>20	34	33	36
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	1	1.1
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.8	21.7
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.8	16.3
Base Number (BN)	mg KOH/g			7.0	7.2	8.2
_ 3.55 . 13.71551 (514)	9		5.0			J



OIL ANALYSIS REPORT

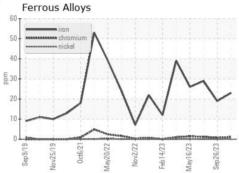


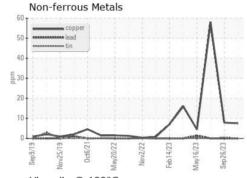


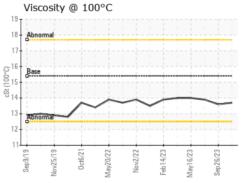
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

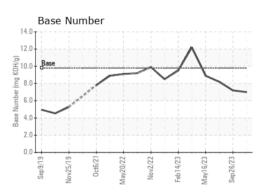
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.9	

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number : 10696554 **Unique Number** Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098377 Received : 16 Oct 2023 : 16 Oct 2023 : 05979259 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street Springfield, MO

US 65807 Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

* - 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)