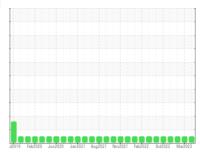


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **3873** Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

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

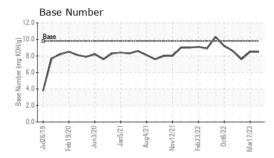
Fluid Condition

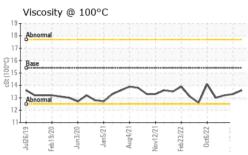
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,2019 Feb.2020 Jun.2020 Jan2021 Aug2021 Nov2021 Feb.2022 Oct2022 Mar2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0087104	GFL0056600	GFL0056576	
Sample Date		Client Info		12 Jul 2023	17 Mar 2023	14 Feb 2023	
Machine Age	hrs	Client Info		11709	10772	10488	
Oil Age	hrs	Client Info		937	284	597	
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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>165	12	6	11	
Chromium	ppm	ASTM D5185m	>5	<1	0	1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	<1	
Lead	ppm	ASTM D5185m	>150	1	0	2	
Copper	ppm	ASTM D5185m	>90	<1	0	<1	
Tin	ppm	ASTM D5185m	>5	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	1	7	9	
Barium	ppm	ASTM D5185m	0	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	52	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	939	865	856	
Calcium	ppm	ASTM D5185m	1070	1151	1100	1110	
Phosphorus	ppm	ASTM D5185m	1150	1053	928	969	
Zinc	ppm	ASTM D5185m	1270	1298	1198	1168	
Sulfur	ppm	ASTM D5185m	2060	3419	3098	2961	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	6	4	5	
Sodium	ppm	ASTM D5185m		4	3	4	
Potassium	ppm	ASTM D5185m	>20	1	<1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.3	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.2	20.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	14.9	16.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	8.5	7.6	
(DIV)	ing itoring	. IOTHI DE000	5.0	0.0	0.0	7.0	



OIL ANALYSIS REPORT

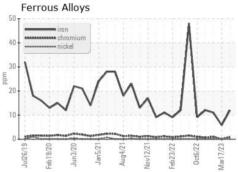


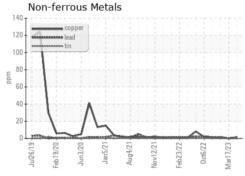


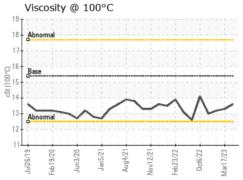
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

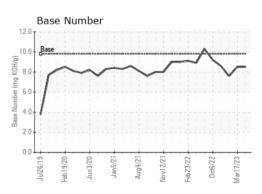
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.3	13.2

GRAPHS













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number **Unique Number**

: GFL0087104 : 05898335 : 10559691

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jul 2023 : 17 Jul 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 001 - Raleigh(CNG)

3741 Conquest Drive Garner, NC US 27529 Contact: Craig Johnson

craig.johnson@gflenv.com

T: (919)662-7100 F: (919)662-7130

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)