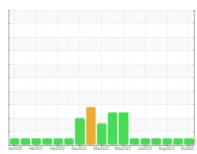


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **728006**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (18 QTS)

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.

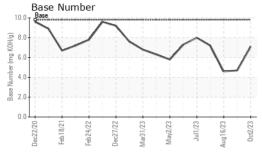
Fluid Condition

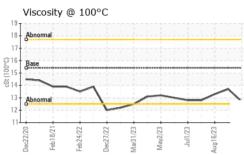
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS) No.2020 Foold21 Foold22 Onc.2022 Mor.2023 Mor.2023 Judit023 Aug.2023 Onc.2021							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0097880	GFL0091376	GFL0088777	
Sample Date		Client Info		02 Oct 2023	01 Sep 2023	16 Aug 2023	
Machine Age	hrs	Client Info		1366	1215	1145	
Oil Age	hrs	Client Info		151	597	527	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
	ION	method	live it/le e e e				
CONTAMINAT	ION		limit/base		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	20	57	49	
Chromium	ppm	ASTM D5185m	>20	<1	2	2	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	6	6	
Lead	ppm	ASTM D5185m	>40	2	8	7	
Copper	ppm	ASTM D5185m	>330	3	4	4	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	8	9	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	67	65	
Manganese	ppm	ASTM D5185m	0	<1	<1	1	
Magnesium	ppm	ASTM D5185m	1010	912	875	873	
Calcium	ppm	ASTM D5185m	1070	1199	1316	1254	
Phosphorus	ppm	ASTM D5185m	1150	1003	988	981	
Zinc	ppm	ASTM D5185m	1270	1249	1299	1237	
Sulfur	ppm	ASTM D5185m	2060	2823	3148	3124	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	15	16	
Sodium	ppm	ASTM D5185m		6	7	7	
Potassium	ppm	ASTM D5185m	>20	4	6	8	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	1.3	1.1	
Nitration	Abs/cm	*ASTM D7624		9.2	12.9	11.8	
Sulfation	Abs/.1mm	*ASTM D7024	>30	20.1	26.9	25.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	25.6	23.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	4.7	4.6	



OIL ANALYSIS REPORT

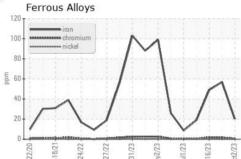


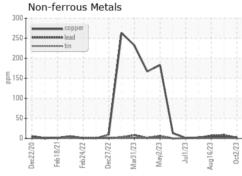


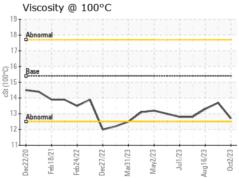
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

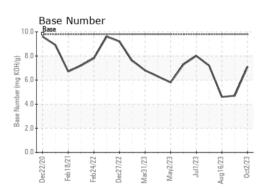
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.7	13.3

GRAPHS













Certificate L2367

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

: GFL0097880 : 05968574 : 10675125

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 04 Oct 2023 : 04 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

* - 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: