

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **833013**

Component

Natural Gas Engine

PETRO CANADA DURON SHP 15W40 (--- L

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 oil.

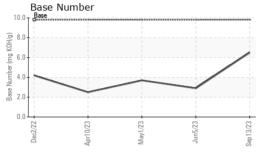
Fluid Condition

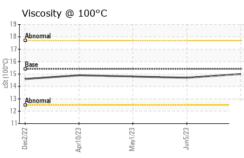
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TR)		Dec2022	Apr2023	May2023 Jun2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084592	GFL0084574	GFL0078193
Sample Date		Client Info		13 Sep 2023	05 Jun 2023	01 May 2023
Machine Age	mls	Client Info		0	24390	29803
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	22	18
Chromium	ppm	ASTM D5185m	>4	<1	1	1
Nickel	ppm	ASTM D5185m	>2	0	2	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	4	<1
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>35	0	3	4
Tin	ppm	ASTM D5185m	>4	<1	2	<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	18	5	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	61	56
Manganese	ppm	ASTM D5185m	0	<1	3	2
Magnesium	ppm	ASTM D5185m	1010	624	700	629
Calcium	ppm	ASTM D5185m	1070	1664	1941	1702
Phosphorus	ppm	ASTM D5185m	1150	710	855	768
Zinc	ppm	ASTM D5185m	1270	953	1164	1033
Sulfur	ppm	ASTM D5185m	2060	2866	3221	2940
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	7	6
Sodium	ppm	ASTM D5185m		6	9	6
Potassium	ppm	ASTM D5185m	>20	0	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	12.3	11.6
	Abs/.1mm	*ASTM D7415	>30	20.2	28.3	22.9
Sulfation	AUS/. IIIIIII					
Sulfation FLUID DEGRAD		method	limit/base	current	history1	history2
			limit/base >25	current	history1 24.3	history2



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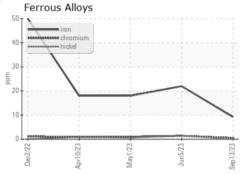


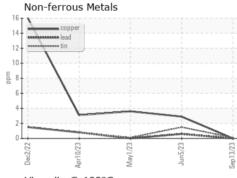


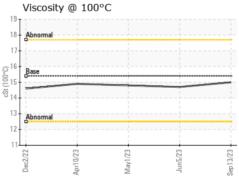
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

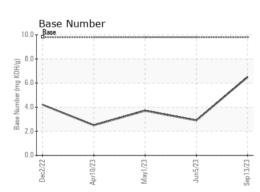
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	14.7	14.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10655754 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084592 : 05954541

Received Diagnosed

: 18 Sep 2023 : 20 Sep 2023 Diagnostician : Don Baldridge GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: KEITH ROWALD krowald@gflenv.com T: (303)641-3906

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)