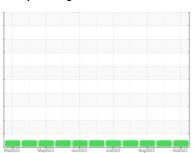


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **413017** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

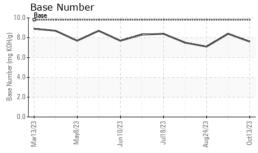
Fluid Condition

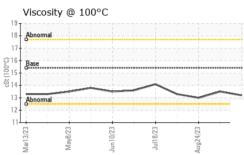
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N 30P 13W40 (-	Q13)	Mar2023	May2023 Jun2023	Jul2023 Aug2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097221	GFL0069206	GFL0069152
Sample Date		Client Info		13 Oct 2023	07 Sep 2023	24 Aug 2023
Machine Age	hrs	Client Info		1668	1447	1340
Oil Age	hrs	Client Info		328	107	553
Oil Changed		Client Info		Not Changd	Not Changd	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 METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	10	4	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	9
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m		13	9	58
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	5	5
Barium	ppm	ASTM D5185m	0	10	0	0
Molybdenum	ppm	ASTM D5185m	60	56	58	64
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	832	989	933
Calcium	ppm	ASTM D5185m	1070	948	1061	1140
Phosphorus	ppm	ASTM D5185m	1150	928	1047	1023
Zinc	ppm	ASTM D5185m	1270	1087	1324	1291
Sulfur	ppm	ASTM D5185m	2060	2752	3968	3410
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	6
Sodium	ppm	ASTM D5185m		2	3	4
Potassium	ppm	ASTM D5185m	>20	10	6	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.0	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.2	19.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	12.9	15.5
Base Number (BN)		ASTM D2896	9.8	7.6	8.4	7.1
2000 (DIA)	my nong	. 10 1111 DE000	3.0		0. 1	7



OIL ANALYSIS REPORT

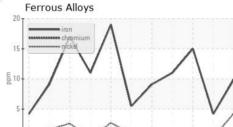


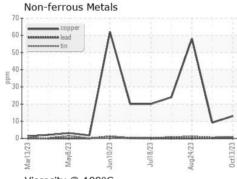


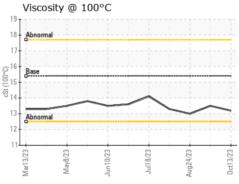
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

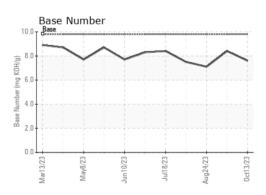
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.5	13.0	

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10698408 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0097221 : 05981113

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

Received : 17 Oct 2023 Diagnosed : 18 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

* - 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)

F: