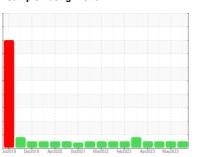


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 429062-402464

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.

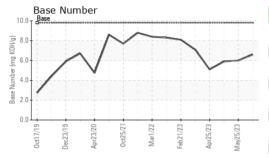
Fluid Condition

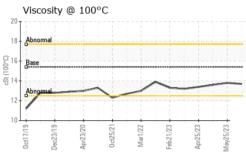
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Oct2019 Deca	019 Apr2020 Oct2021	Mar2022 Feb2023 Apr2023	May2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087043	GFL0083682	GFL0080017
Sample Date		Client Info		02 Aug 2023	25 May 2023	10 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	>110	26	76	69
Chromium	ppm	ASTM D5185m	>4	1	4	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	5	6
Lead	ppm	ASTM D5185m	>45	4	17	12
Copper	ppm	ASTM D5185m	>85	30	73	74
Tin	ppm	ASTM D5185m	>4	<1	1	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	3	4	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	68	68
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	924	892	947
Calcium	ppm	ASTM D5185m	1070	1189	1403	1514
Phosphorus	ppm	ASTM D5185m	1150	1046	1064	1090
Zinc	ppm	ASTM D5185m	1270	1309	1353	1383
Sulfur	ppm	ASTM D5185m	2060	3501	2788	2902
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	10	10
Sodium	ppm	ASTM D5185m		11	43	48
Potassium	ppm	ASTM D5185m	>20	4	5	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.4	13.0	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	25.4	25.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	24.9	24.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	6.0	5.9
	09					



OIL ANALYSIS REPORT

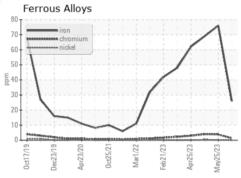


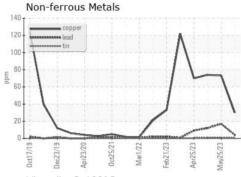


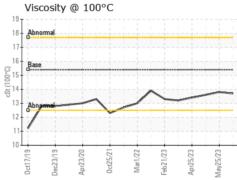
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

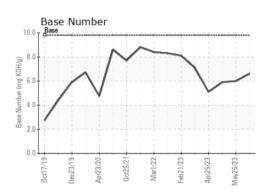
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.8	13.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10605846 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087043 : 05925899

Received : 16 Aug 2023 Diagnosed : 17 Aug 2023 Diagnostician

: Wes Davis

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY US 42066

Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

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)