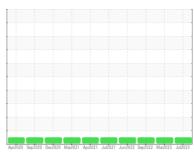


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **928016-9051**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

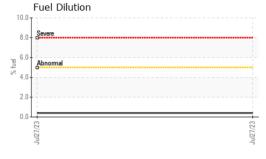
Fluid Condition

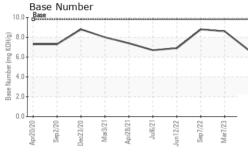
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

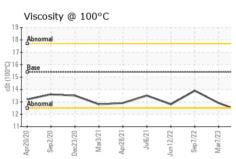
GAL)		Apr2020 Sep2	020 Dec2020 Mar2021 Apr2	021 Jul2021 Jun2022 Sep2022 Marz	023 Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0079759	GFL0067422	GFL0049574
Sample Date		Client Info		27 Jul 2023	07 Mar 2023	07 Sep 2022
Machine Age	hrs	Client Info		14115	13013	11714
Oil Age	hrs	Client Info		612	13013	11714
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	14	4	5
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		15	10	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	1
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	23	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	50	11
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	876	805	162
Calcium	ppm	ASTM D5185m	1070	1246	1170	2003
Phosphorus	ppm	ASTM D5185m	1150	1056	909	854
Zinc	ppm	ASTM D5185m	1270	1290	1130	1025
Sulfur	ppm	ASTM D5185m	2060	3835	3169	3266
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	3	4
Sodium	ppm	ASTM D5185m		5	3	1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	7.2	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	18.4	17.6
FLUID DEGRADATION method limit/base current history1 history2						
	Abs/.1mm	*ASTM D7414				
Oxidation Base Number (BN)			>25	15.9	13.8	10.5
pase Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.6	8.8



OIL ANALYSIS REPORT



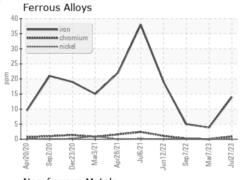


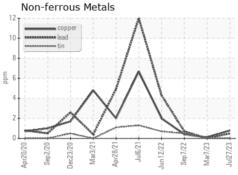


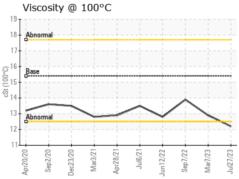
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

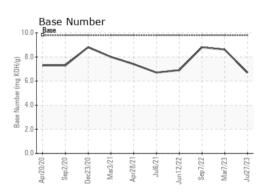
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	12.9	13.9	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: GFL0079759 : 05922738 : 10602685

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Aug 2023 Diagnosed : 15 Aug 2023 Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 663 - Lake Ariel (Scranton Hauling) 17 Industrial Park Rd Lake Ariel, PA

US 18436 Contact: Eric Merone emerone@countyrecycling.net T:

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)

F: