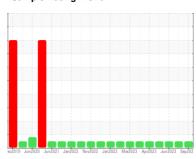


OIL ANALYSIS REPORT

Sample Rating Trend







429059-402467

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.

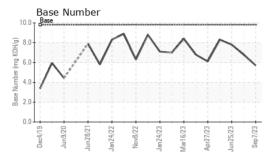
Fluid Condition

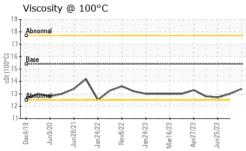
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		ec2019 Jun20	20 Jun2021 Jan2022 Nov2	022 Jan2023 Mar2023 Apr2023 Ju	2023 Sep202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0087037 07 Sep 2023	GFL0087048 04 Aug 2023	GFL0083669 25 Jun 2023
Machine Age	hrs	Client Info		07 Sep 2023	04 Aug 2023	0
Oil Age	hrs	Client Info		0	0	0
-	1115	Client Info		N/A	Not Changd	Not Changd
Oil Changed Sample Status		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
·	1011					
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel			>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	29	19	10
Chromium	ppm	ASTM D5185m	>4	2	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	8	8	1
Lead	ppm	ASTM D5185m	>45	13	7	2
Copper	ppm	ASTM D5185m	>85	2	1	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1064	982	973
Calcium	ppm	ASTM D5185m	1070	1459	1277	1259
Phosphorus	ppm	ASTM D5185m	1150	1116	1091	1068
Zinc	ppm	ASTM D5185m	1270	1429	1374	1318
Sulfur	ppm	ASTM D5185m	2060	3593	3789	3678
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	7	5	5
Sodium	ppm	ASTM D5185m		8	6	5
Potassium	ppm	ASTM D5185m	>20	16	11	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.9	11.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	23.4	21.7
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	20.2	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	6.8	7.8



OIL ANALYSIS REPORT

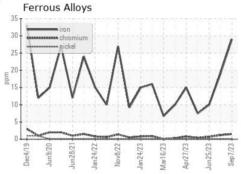


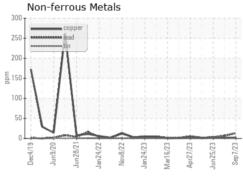


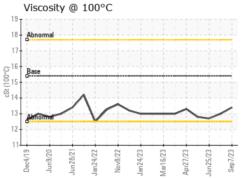
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

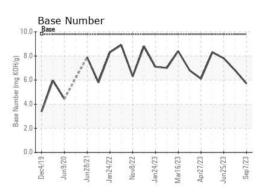
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.0	12.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10649689 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087037 : 05953730

Received Diagnosed

: 18 Sep 2023 : 20 Sep 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)