

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 3060A Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- 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

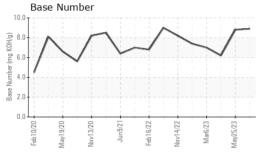
Fluid Condition

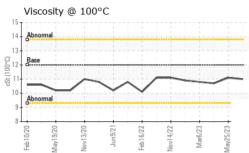
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IN SHP 10W30 (- GAL)	eb2020 May	2020 Nov2020 Jun2021	Feb 2022 Nov2022 Mar 2023	May2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0079959	GFL0079863	GFL0073966
Sample Date		Client Info		30 May 2023	25 May 2023	30 Mar 2023
Machine Age	hrs	Client Info		25635	25607	25444
Oil Age	hrs	Client Info		0	24265	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>120	6	6	18
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	2	4
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m		<1	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	рріп					
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	4	5	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	62	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	849	890	664
Calcium	ppm	ASTM D5185m	1050	1081	1147	1146
Phosphorus	ppm	ASTM D5185m	995	902	988	854
Zinc	ppm	ASTM D5185m	1180	1163	1217	1106
Sulfur	ppm	ASTM D5185m	2600	3442	3671	2913
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		34	39	△ 97
Potassium	ppm	ASTM D5185m	>20	9	8	7
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.3	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.3	20.0
FLUID DEGRA	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.1	15.7
Base Number (BN)	mg KOH/g		-	8.9	8.8	6.2
Dasc Hamber (DIV)	mg Normy	AO I WI DE000		0.0	0.0	0.2



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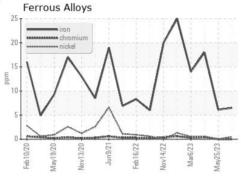


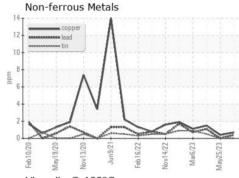


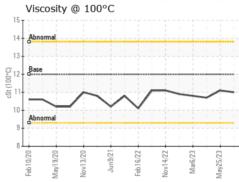
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

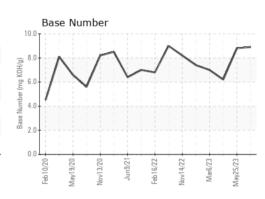
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1	10.7

GRAPHS













Laboratory Sample No. Lab Number

Unique Number : 10550616

: GFL0079959 : 05894806

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2023 Diagnosed : 11 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 123 - Best Way Disposal

650 Santa Fe St Colorado Springs, CO US 80903

Contact: JASON KING

JASON.KING@GFLENV.COM

T: (800)207-6618 F: (719)633-3694

Test Package : FLEET Certificate L2367 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)