

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10711 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

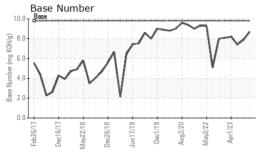
Fluid Condition

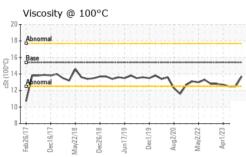
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

5AL) 62017 Dec2017 May(018 Dec2018 Jun2019 Dec2018 Aug(020 May(022 Apr2023)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0069199	GFL0069124	GFL0077462	
Sample Date		Client Info		06 Sep 2023	09 Aug 2023	25 Apr 2023	
Machine Age	hrs	Client Info		905	895	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
	ION	and the set	Para Maria and				
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	>100	5	14	5	
Chromium	ppm	ASTM D5185m	>20	<1	2	0	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	0	
Aluminum	ppm	ASTM D5185m	>20	4	13	3	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	<1	2	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	9	9	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	79	60	
Manganese	ppm	ASTM D5185m	0	1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	979	1168	929	
Calcium	ppm	ASTM D5185m	1070	1050	1336	1080	
Phosphorus	ppm	ASTM D5185m	1150	1043	1266	980	
Zinc	ppm	ASTM D5185m	1270	1310	1532	1227	
Sulfur	ppm	ASTM D5185m	2060	3947	3944	3273	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	6	4	
Sodium	ppm	ASTM D5185m		2	4	<1	
Potassium	ppm	ASTM D5185m	>20	8	6	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.4	5.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	17.7	15.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	13.3	12.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.0	8.7	7.9	7.4	



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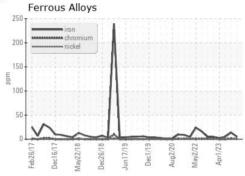


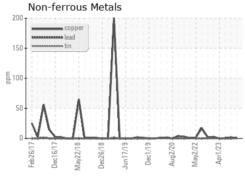


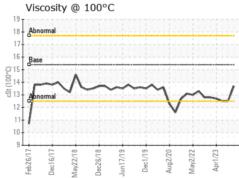
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

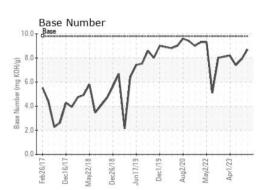
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	12.5	12.5

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10642960 Test Package : FLEET

: GFL0069199 : 05947001

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Sep 2023 Diagnosed : 12 Sep 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)

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