

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



(EHT512) 11267

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (16 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

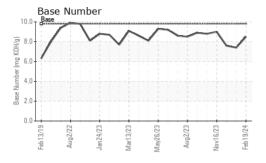
Fluid Condition

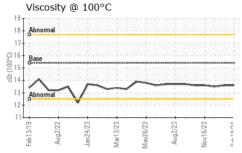
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) 10.00							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0068892	GFL0068880	GFL0097148	
Sample Date		Client Info		19 Feb 2024	13 Jan 2024	05 Dec 2023	
Machine Age	hrs	Client Info		12396	12126	11976	
Oil Age	hrs	Client Info		270	438	288	
Oil Changed		Client Info		Not Changd	Changed	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	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	10	19	16	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	3	
Lead	ppm	ASTM D5185m	>40	<1	1	0	
Copper	ppm	ASTM D5185m	>330	<1	1	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
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	3	2	4	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	60	61	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	980	956	908	
Calcium	ppm	ASTM D5185m	1070	1035	1053	1035	
Phosphorus	ppm	ASTM D5185m	1150	1044	1011	1002	
Zinc	ppm	ASTM D5185m	1270	1315	1246	1232	
Sulfur	ppm	ASTM D5185m		3179	3044	2969	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	6	7	
Sodium	ppm	ASTM D5185m		1	2	4	
Potassium	ppm	ASTM D5185m	>20	2	2	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	1.4	1.2	
Nitration	Abs/cm	*ASTM D7624		8.4	13.1	12.0	
Sulfation	Abs/.1mm	*ASTM D7415		19.1	22.2	21.2	
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	18.9	17.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	7.4	7.6	



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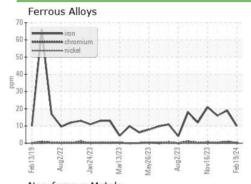


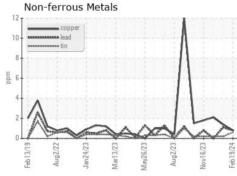


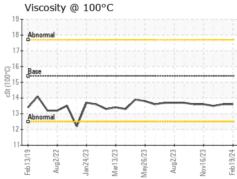
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

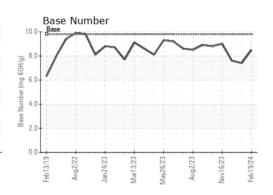
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.5

GRAPHS













Laboratory Sample No.

: GFL0068892 Lab Number : 06095350 Unique Number : 10888203

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Feb 2024 **Tested** : 22 Feb 2024

Diagnosed : 22 Feb 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY jmaloney@gflenv.com

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)

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