

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 834045 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

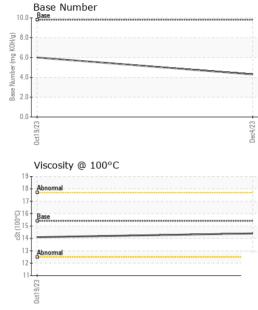
Fluid Condition

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

iAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102520	GFL0093685	
Sample Date		Client Info		04 Dec 2023	19 Oct 2023	
Machine Age	hrs	Client Info		552	278	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	56	50	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Γitanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	
.ead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	17	15	
- īin	ppm	ASTM D5185m	>15	<1	<1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	17	
Barium	ppm	ASTM D5185m	0	0	2	
Nolybdenum	ppm	ASTM D5185m	60	59	51	
/langanese	ppm	ASTM D5185m	0	13	13	
Magnesium	ppm	ASTM D5185m	1010	763	804	
Calcium	ppm	ASTM D5185m	1070	1217	1214	
Phosphorus	ppm	ASTM D5185m	1150	645	754	
Zinc	ppm	ASTM D5185m	1270	901	927	
Sulfur	ppm	ASTM D5185m	2060	2514	2393	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	33	34	
Sodium	ppm	ASTM D5185m		1	4	
Potassium	ppm	ASTM D5185m	>20	6	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	12.4	10.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	19.6	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.3	6.0	



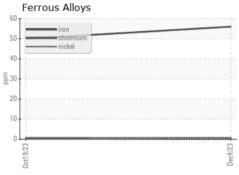
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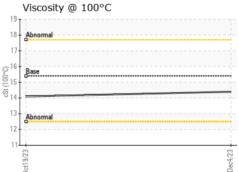
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
	DTIEO				111	1

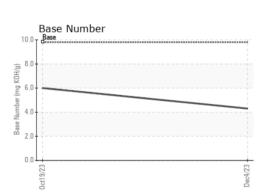
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	1.4.1	

GRAPHS



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10790226

: GFL0102520 : 06034997 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 14 Dec 2023 : 18 Dec 2023 Diagnostician : Don Baldridge

GFL Environmental - 837 - Harrison TS 22820 S State Route 291

Harrisonville, MO US 64701

Contact: BRYAN SWANSON bryanswanson@gflenv.com

* - 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) T:

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