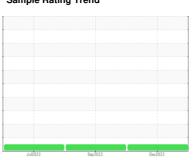


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **7827M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

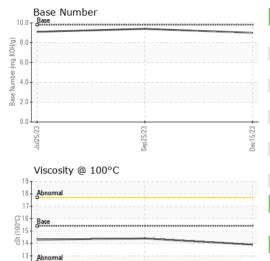
Fluid Condition

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

			12023	Sep 2023 Dec 20	23		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104145	GFL0084950	GFL0085018	
Sample Date		Client Info		15 Dec 2023	25 Sep 2023	25 Jul 2023	
Machine Age	hrs	Client Info		6268	79617	76995	
Oil Age	hrs	Client Info		0	5833	76995	
Oil Changed		Client Info		N/A	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<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	>90	11	8	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	<1	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m		1	3	0	
Tin	ppm		>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	4	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	59	64	
Manganese	ppm	ASTM D5185m		0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	958	985	1062	
Calcium	ppm	ASTM D5185m	1070	1039	1101	1155	
Phosphorus	ppm	ASTM D5185m	1150	1080	1066	1144	
Zinc	ppm	ASTM D5185m	1270	1276	1283	1349	
Sulfur	ppm	ASTM D5185m	2060	3318	3201	3988	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	9	9	3	
Sodium	ppm	ASTM D5185m		2	4	2	
Potassium	ppm	ASTM D5185m	>20	2	4	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.2	0.8	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.3	5.8	
Sulfation	Abs/.1mm	*ASTM D7024	>30	17.6	19.1	17.8	
Ounation		-					
		method	limi <u>t/base</u>	current	historv1	historv2	
FLUID DEGRA	DATION		limit/base	current	history1	history2	
		method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 13.7 9.0	history1 14.7 9.4	history2 13.6 9.1	



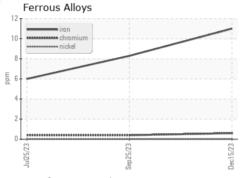
OIL ANALYSIS REPORT

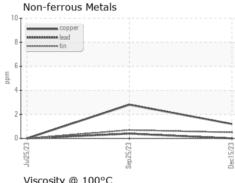


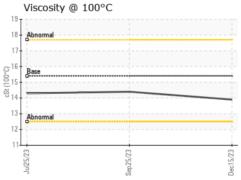
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

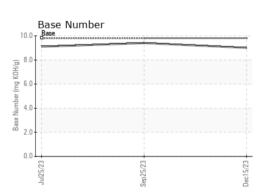
FLUID PROP	EHILO	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.4	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10802400 Test Package : FLEET

: GFL0104145 : 06041792

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 21 Dec 2023 Diagnosed : 22 Dec 2023

Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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)

Report Id: GFL410 [WUSCAR] 06041792 (Generated: 12/22/2023 10:17:25) Rev: 1

Submitted By: Belal Dgheish