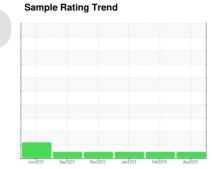


OIL ANALYSIS REPORT









Machine Id 933033 **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

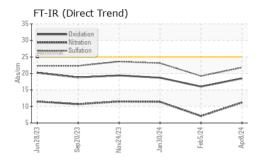
Fluid Condition

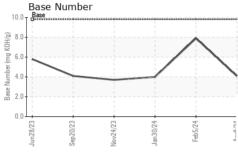
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

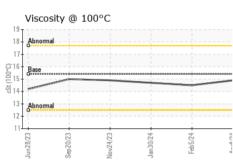
/ 1011 1011 10 10	,						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0106905	GFL0092164	GFL0092173	
Sample Date		Client Info		08 Apr 2024	05 Feb 2024	30 Jan 2024	
Machine Age	hrs	Client Info		2935	2403	2351	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	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	>120	6	2	8	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	7	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	0	0	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	36	7	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	52	48	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	529	541	538	
Calcium	ppm	ASTM D5185m	1070	1556	1436	1604	
Phosphorus	ppm	ASTM D5185m	1150	649	765	699	
Zinc	ppm	ASTM D5185m	1270	891	901	973	
Sulfur	ppm	ASTM D5185m	2060	2526	2344	2512	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	5	
Sodium	ppm	ASTM D5185m		6	4	4	
Potassium	ppm	ASTM D5185m	>20	5	3	23	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	7.1	11.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.2	23.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	16.0	18.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.1	7.9	4.0	
(514)							



OIL ANALYSIS REPORT



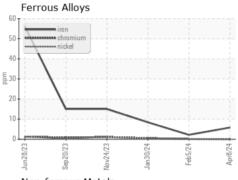


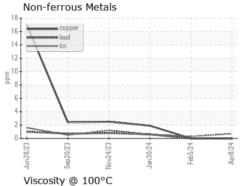


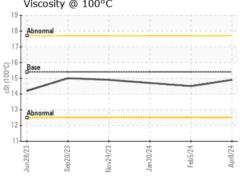
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

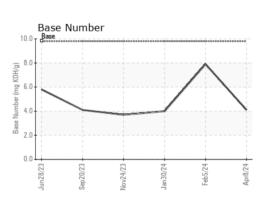
FLUID PROP	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	14.5	14.7

GRAPHS













Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06144915

: GFL0106905 Unique Number : 10969723

Received **Tested** Diagnosed

: 10 Apr 2024 : 11 Apr 2024 : 13 Apr 2024 - Don Baldridge

GFL Environmental - 856 - Houston South 8515 Highway 6 South

Houston, TX US 77083 Contact: Apolinar Zacarias

Test Package : FLEET Certificate 12367 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)

pzacariascano@gflenv.com

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F: