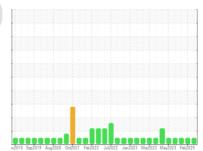


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 948007-205265

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (28 QTS)

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

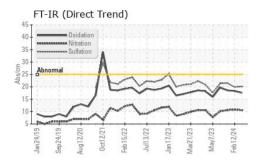
Fluid Condition

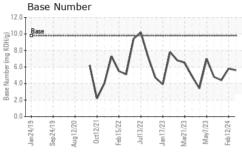
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

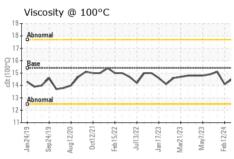
æ13)		H2019 369201	AUGZOZO OCIZOZI PROZOZ	z Juizuzz Janzuza Marzuza Mayz	023 F802024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0106880	GFL0092158	GFL0084643	
Sample Date		Client Info		02 May 2024	12 Feb 2024	15 Oct 2023	
Machine Age	hrs	Client Info		18846	147227	0	
Oil Age	hrs	Client Info		600	470	0	
Oil Changed		Client Info		Changed	Changed	Changed	
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	7	14	8	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	1	
Lead	ppm	ASTM D5185m	>40	1	<1	<1	
Copper	ppm	ASTM D5185m	>330	0	2	1	
Tin	ppm	ASTM D5185m	>15	1	1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	10	14	7	
Barium	ppm	ASTM D5185m	0	0	7	3	
Molybdenum	ppm	ASTM D5185m	60	48	48	51	
Manganese	ppm	ASTM D5185m	0	<1	3	<1	
Magnesium	ppm	ASTM D5185m	1010	554	757	514	
Calcium	ppm	ASTM D5185m	1070	1526	1222	1517	
Phosphorus	ppm	ASTM D5185m	1150	727	715	619	
Zinc	ppm	ASTM D5185m	1270	921	927	830	
Sulfur	ppm	ASTM D5185m	2060	2759	2463	2049	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	15	5	
Sodium	ppm	ASTM D5185m		6	3	9	
Potassium	ppm	ASTM D5185m	>20	2	<1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.8	10.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.9	21.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	18.3	18.6	
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	5.8	4.4	
(214)				U.U			



OIL ANALYSIS REPORT





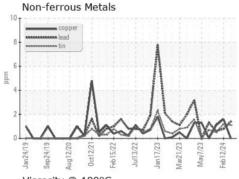


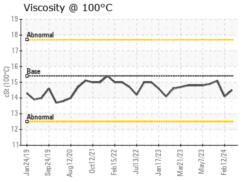
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

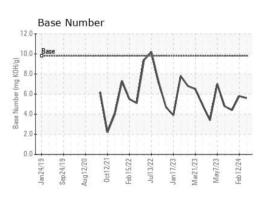
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.1	15.1

GRAPHS

Ferrous Alloys











Laboratory Sample No. Unique Number : 11021259

: GFL0106880 Lab Number : 06175206

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

: 10 May 2024 **Tested** : 13 May 2024 Diagnosed

: 13 May 2024 - Don Baldridge

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX

US 77083 Contact: Jose Gonzalez jgonzalez2@gflenv.com

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)

T:

F: