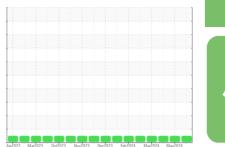


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 921046-260380

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

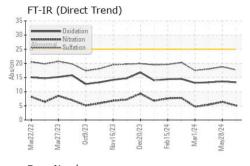
Fluid Condition

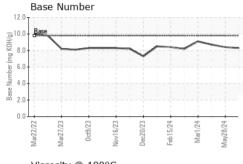
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

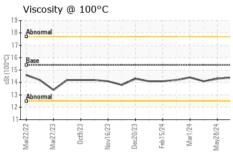
AAL)		natzuzz mai	2023 0012023 10072023	Dec2023 Fe02024 Mel2024	Widy2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122914	GFL0122838	GFL0114193	
Sample Date		Client Info		25 Jun 2024	28 May 2024	04 Apr 2024	
Machine Age	hrs	Client Info		8157	8032	7838	
Oil Age	hrs	Client Info		125	7598	7598	
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	4	3	3	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	1	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	<1	0	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	0	0	
Barium	ppm	ASTM D5185m	0	<1	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	56	57	
Manganese	ppm	ASTM D5185m	0	0	0	0	
Magnesium	ppm	ASTM D5185m	1010	906	940	924	
Calcium	ppm	ASTM D5185m	1070	1087	1074	1059	
Phosphorus	ppm	ASTM D5185m	1150	970	1042	1044	
Zinc	ppm	ASTM D5185m	1270	1212	1216	1214	
Sulfur	ppm	ASTM D5185m	2060	2834	3506	3570	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	3	0	2	
Sodium	ppm	ASTM D5185m		1	3	3	
Potassium	ppm	ASTM D5185m	>20	3	2	14	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.6	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	5.1	6.4	5.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.8	18.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.6	13.3	
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	8.4	8.7	
	39						



OIL ANALYSIS REPORT





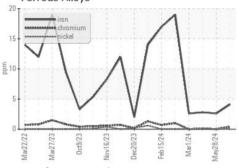


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

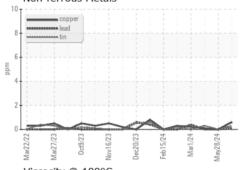
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.1

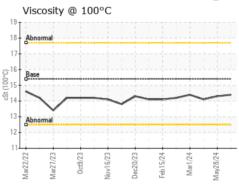
GRAPHS

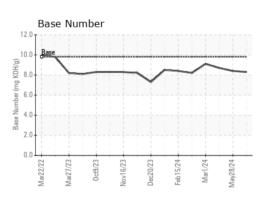
Ferrous Alloys



Non-ferrous Metals











Certificate 12367

Laboratory Sample No.

: GFL0122914 Lab Number : 06225644

Unique Number : 11103841 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested**

: 02 Jul 2024 Diagnosed : 02 Jul 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@gflenv.com

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: