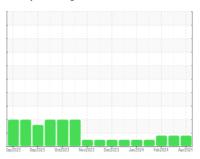


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id 914032

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

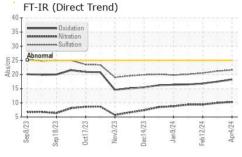
Fluid Condition

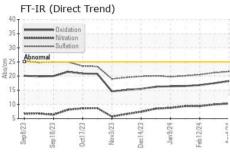
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

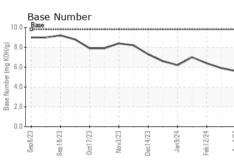
AL)		Sep2023 Sep	2023 Oct2023 Nov20	23 Dec2023 Jan2024 Feb20		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115378	GFL0115368	GFL0110875
Sample Date		Client Info		04 Apr 2024	20 Mar 2024	12 Feb 2024
Machine Age	hrs	Client Info		1705	1488	1340
Oil Age	hrs	Client Info		217	148	151
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	42	37	30
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	14	<u> </u>	<u> </u>
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	3	3
_ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	94	105	198
Γin	ppm	ASTM D5185m	>15	2	0	1
√anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	63	61
Manganese	ppm	ASTM D5185m	0	2	2	2
Magnesium	ppm	ASTM D5185m	1010	913	952	877
Calcium	ppm	ASTM D5185m	1070	1046	1117	964
Phosphorus	ppm	ASTM D5185m	1150	912	906	934
Zinc	ppm	ASTM D5185m	1270	1174	1219	1130
Sulfur	ppm	ASTM D5185m	2060	2452	2639	2224
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	11	12
Sodium	ppm	ASTM D5185m		5	10	4
Potassium	ppm	ASTM D5185m	>20	11	9	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.7	0.6
Vitration	Abs/cm	*ASTM D7624	>20	10.3	10.0	9.4
	A1 / 4	*ASTM D7415	>30	21.6	21.2	20.5
	Abs/.1mm	ASTNI D7413	<i>></i> 00	21.0		_0.0
			limit/base	current	history1	history2
Sulfation						

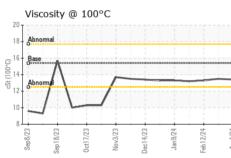


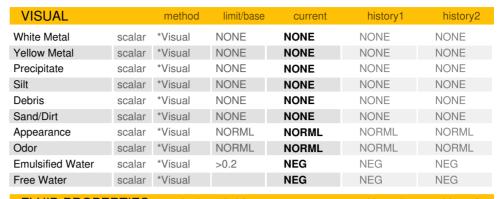
OIL ANALYSIS REPORT





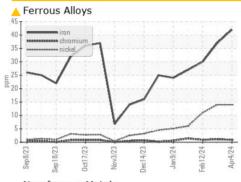


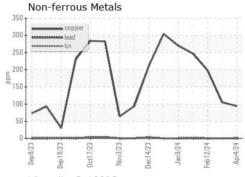


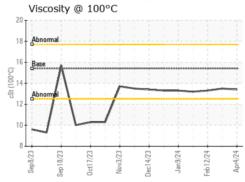


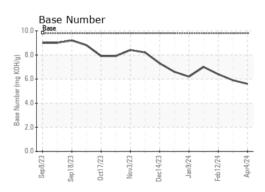
FLUID PROP	ERITES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.5	13.3

GRAPHS









GFL Environmental - 814 - Little Rock Hauling





Certificate 12367

Laboratory Sample No.

: GFL0115378

Lab Number : 06145187 Unique Number : 10969995 Test Package : FLEET

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

Received : 10 Apr 2024 **Tested** : 11 Apr 2024

: 13 Apr 2024 - Don Baldridge

Diagnosed

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

4005 Hwy 161 N.

Contact: Brad Koenig

bkoenig@gflenv.com

Little Rock, AR

US 72117

T:

F: