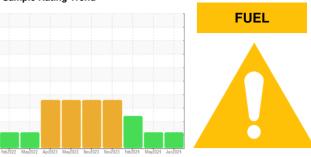


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

722026-261545

Diesel Engine

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

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

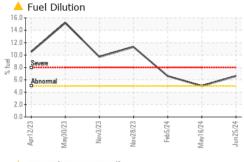
▲ Fluid Condition

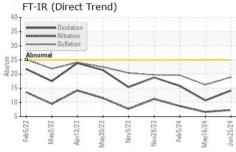
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

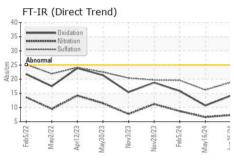
GAL)		Feb2022 Ma	y2022 Apr2023 May2023	Nov2023 Nov2023 Feb2024 May20	124 Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122917	GFL0118828	GFL0109855
Sample Date		Client Info		25 Jun 2024	16 May 2024	05 Feb 2024
Machine Age	hrs	Client Info		20297	20150	19997
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>110	17	15	17
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	1	0
Aluminum	ppm	ASTM D5185m	>25	2	3	1
Lead	ppm	ASTM D5185m	>45	<1	6	0
Copper	ppm	ASTM D5185m	>85	5	16	60
Tin	ppm	ASTM D5185m	>4	1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	12	15
Barium	ppm	ASTM D5185m	0	0	8	0
Molybdenum	ppm	ASTM D5185m	60	44	12	61
Manganese	ppm	ASTM D5185m	0	2	7	<1
Magnesium	ppm	ASTM D5185m	1010	742	124	810
Calcium	ppm	ASTM D5185m	1070	1096	1947	889
Phosphorus	ppm	ASTM D5185m	1150	906	899	911
Zinc	ppm	ASTM D5185m	1270	1108	992	1063
Sulfur	ppm	ASTM D5185m	2060	3141	3589	2621
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	17	7
Sodium	ppm	ASTM D5185m		3	5	△ 361
Potassium	ppm	ASTM D5185m	>20	<1	3	3
Fuel	%	ASTM D3524	>5	△ 6.6	▲ 5.0	△ 6.6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.6	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	16.2	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	10.7	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.6	8.8
- (-)	3					

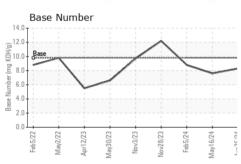


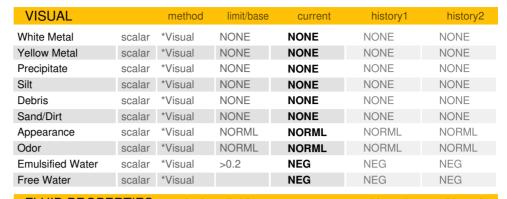
OIL ANALYSIS REPORT





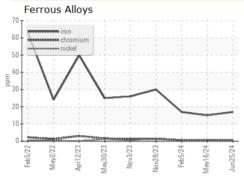


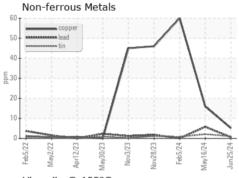


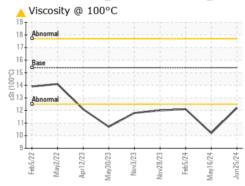


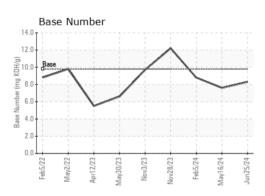
FLUID PROPE	RIIES	method	iimit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	△ 10.2	▲ 12.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0122917 Lab Number : 06225623 Unique Number : 11103820

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

Tested : 03 Jul 2024 Diagnosed

: 03 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. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : FLEET (Additional Tests: PercentFuel)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: