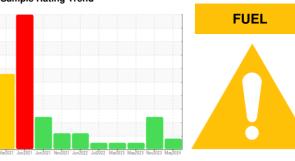


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **725013-583**

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Sample only, out of service)

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

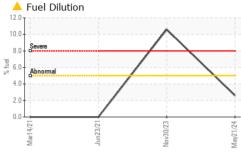
Fluid Condition

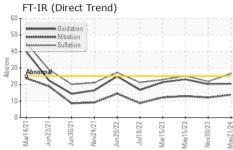
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

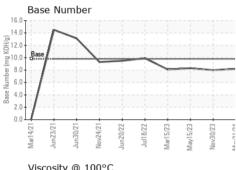
GAL)		Mar2021 Jun2	021 Jun2021 Nov2021 Jun2	022 Jul2022 Mar2023 May2023 Nova	023 May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	WIXTION	Client Info	III III Daoc	GFL0116212	GFL0100053	GFL0062230
Sample Number Sample Date		Client Info		21 May 2024	30 Nov 2023	
Machine Age	hrs	Client Info		14072	13844	15 May 2023 13506
Oil Age	hrs	Client Info		431	203	500
Oil Changed	1113	Client Info		Not Changd	Not Changd	Not Changd
Sample Status		Oliciti IIIIo		MARGINAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	70.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
				63		
Iron	ppm	ASTM D5185m		3	27	97 10
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		ა <1	<1 0	6
Titanium	ppm	ASTM D5185m	>4	<1 <1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		10	1	16
Lead	ppm	ASTM D5185m	>40	<1	0	4
Copper	ppm	ASTM D5185m		3	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	• • •	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	24	9	10
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	60	71	66	65
Manganese	ppm	ASTM D5185m		1	0	1
Magnesium	ppm	ASTM D5185m	1010	856	758	978
Calcium	ppm	ASTM D5185m	1070	1243	993	1197
Phosphorus	ppm	ASTM D5185m	1150	1083	867	1080
Zinc	ppm	ASTM D5185m	1270	1254	1030	1353
Sulfur	ppm	ASTM D5185m	2060	3331	2809	3597
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	10
Sodium	ppm	ASTM D5185m		39	16	36
Potassium	ppm	ASTM D5185m	>20	6	3	5
Fuel	%	ASTM D3524	>5	2.6	▲ 10.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.5	0.9	1.3
000t /6	/0					
Nitration	Abs/cm	*ASTM D7624	>20	13.8	12.1	13.0
		*ASTM D7624 *ASTM D7415	>20 >30	13.8 26.6	12.1 21.8	13.0 25.2
Nitration	Abs/cm Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	26.6	21.8	25.2
Nitration Sulfation FLUID DEGRAI	Abs/cm Abs/.1mm	*ASTM D7415 method	>30 limit/base	26.6 current	21.8 history1	25.2 history2

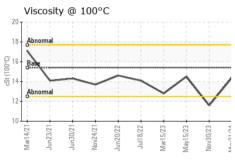


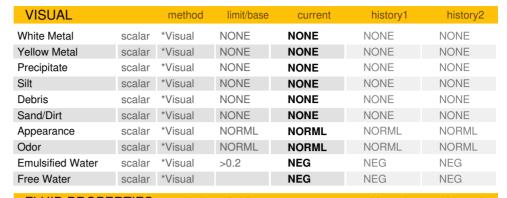
OIL ANALYSIS REPORT





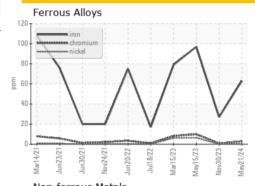


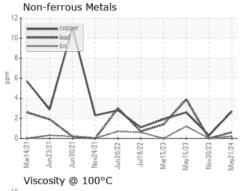


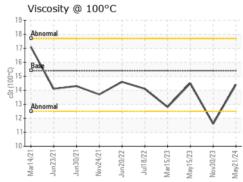


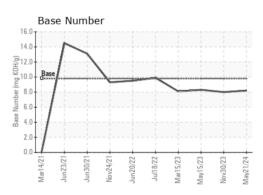
FLUID PROP	EHIIEO	method	iiiiii/base	current	riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	▲ 11.6	14.5

GRAPHS













Laboratory Sample No.

: GFL0116212 Lab Number : 06191744 Unique Number : 11048496

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

: 24 May 2024 Diagnosed

: 30 May 2024 : 30 May 2024 - Sean Felton

1501 Ron Wilson St

Cadillac, MI US 49601 Contact: GARY BREWER gbrewerjr@gflenv.com

GFL Environmental - 626 - Cadillac Hauling

Certificate 12367

Test Package : FLEET (Additional Tests: PercentFuel) 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)

Report Id: GFL626 [WUSCAR] 06191744 (Generated: 05/30/2024 10:46:03) Rev: 1

Submitted By: also GFL632 and GFL638 - Glenda Standen

T:

F: