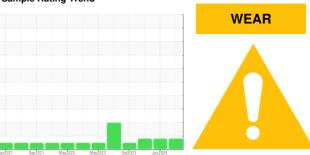


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

948006-205261

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (-

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

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

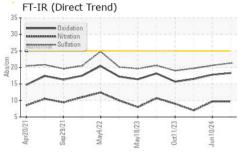
Fluid Condition

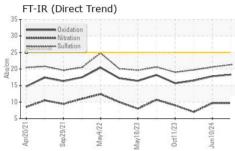
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

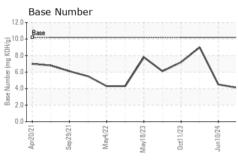
(LTR)		Apr2021	Sep 2021 May 2022	May2023 Oct2023 Ji	in2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096020	GFL0096068	GFL0096048
Sample Date		Client Info		20 Jun 2024	10 Jun 2024	07 Feb 2024
Machine Age	hrs	Client Info		16929	16837	16035
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	10	9
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	4	1
Lead	ppm	ASTM D5185m	>30	1	1	2
Copper	ppm	ASTM D5185m	>35	<u> </u>	<u>▲</u> 168	<u></u> ▲ 54
Tin	ppm	ASTM D5185m	>4	<1	1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	6	30
Barium	ppm	ASTM D5185m	5	0	0	1
Molybdenum	ppm	ASTM D5185m	50	50	59	52
Manganese	ppm	ASTM D5185m	0	2	1	7
Magnesium	ppm	ASTM D5185m	560	572	612	829
Calcium	ppm	ASTM D5185m	1510	1525	1631	1151
Phosphorus	ppm	ASTM D5185m	780	701	734	722
Zinc	ppm	ASTM D5185m	870	937	1023	852
Sulfur	ppm	ASTM D5185m	2040	2581	2867	2401
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	8	14
Sodium	ppm	ASTM D5185m		7	9	19
Potassium	ppm	ASTM D5185m	>20	3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.7	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.6	19.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	17.8	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.1	4.5	9.0
. ,						

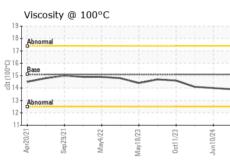


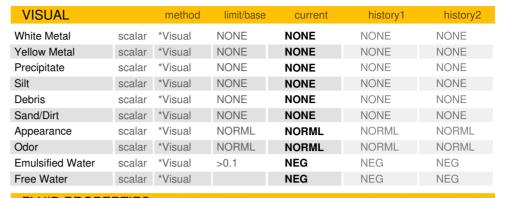
OIL ANALYSIS REPORT





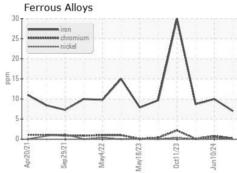


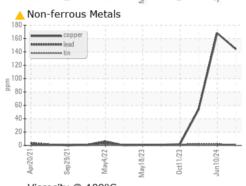


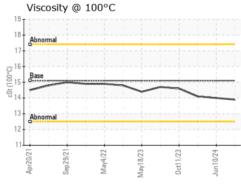


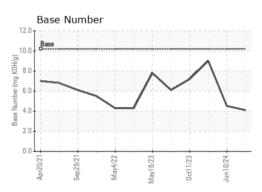
FLUID PROP	method	iiiiii/base	current	riistory i	HIStory	
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.0	14.1

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06216689 Unique Number : 11089553 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0096020

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

Tested Diagnosed

Received : 21 Jun 2024 : 24 Jun 2024

: 24 Jun 2024 - Sean Felton

1378 South Volusia Ave

US 32763 Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM T: (386)503-8468

GFL Environmental - 883 - Orange City

* - 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) Orange City, FL