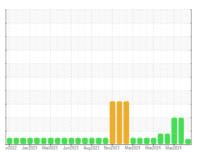


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 731116

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

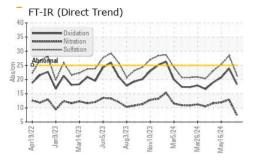
Fluid Condition

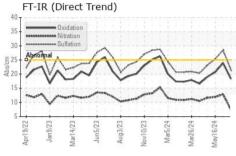
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

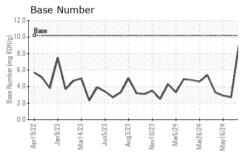
(GAL)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0120201	GFL0120164	GFL0120175	
Sample Date		Client Info		13 Jun 2024	23 May 2024	16 May 2024	
Machine Age	hrs	Client Info		7189	7051	7027	
Oil Age	hrs	Client Info		0	1200	0	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				ATTENTION	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	4	▲ 53	▲ 68	
Chromium	ppm	ASTM D5185m	>4	0	4	4	
Nickel	ppm	ASTM D5185m	>2	0	2	2	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>9	4	8	7	
Lead	ppm	ASTM D5185m	>30	0	10	3	
Copper	ppm	ASTM D5185m	>35	1	2	2	
Tin	ppm	ASTM D5185m	>4	0	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	44	4	6	
Barium	ppm	ASTM D5185m	5	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	1	58	62	
Manganese	ppm	ASTM D5185m	0	0	2	1	
Magnesium	ppm	ASTM D5185m	560	862	522	558	
Calcium	ppm	ASTM D5185m	1510	1284	1760	1707	
Phosphorus	ppm	ASTM D5185m	780	745	736	871	
Zinc	ppm	ASTM D5185m	870	870	966	1039	
Sulfur	ppm	ASTM D5185m	2040	2711	3466	2941	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	2	19	22	
Sodium	ppm	ASTM D5185m		2	15	26	
Potassium	ppm	ASTM D5185m	>20	3	3	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	12.9	11.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	28.4	25.3	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	23.9	20.7	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	9.0	△ 2.7	<u>^</u> 2.9	
, ,							



OIL ANALYSIS REPORT

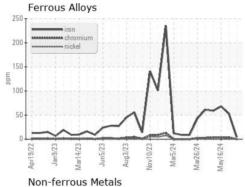


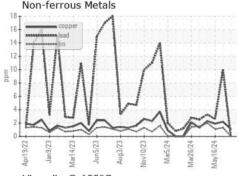


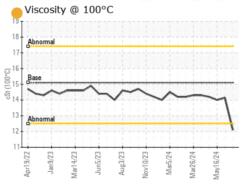


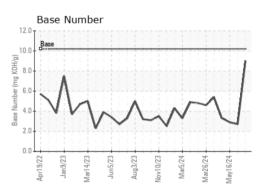
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

L LOID PROPI	ERITES					
Visc @ 100°C	cSt	ASTM D445	15.1	12.1	14.14	14.0













Certificate 12367

Laboratory Sample No.

Lab Number : 06213201

: GFL0120201 Unique Number : 11086065

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

: 18 Jun 2024 : 21 Jun 2024

: 21 Jun 2024 - Jonathan Hester Test Package: FLEET (Additional Tests: FUELDILUTION, PercentFuel)

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com T:

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: GFL836 [WUSCAR] 06213201 (Generated: 06/21/2024 18:59:29) Rev: 1

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836

F: