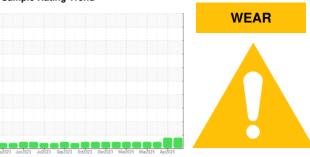


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 433005

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

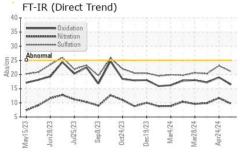
Fluid Condition

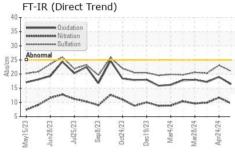
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

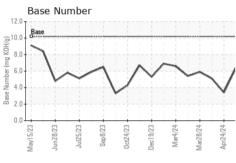
GAL) Implicas Juntoss Justoss Septoss Octoos Decitoss Martines Martines Aprilines								
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0120150	GFL0117163	GFL0117201		
Sample Date		Client Info		28 May 2024	24 Apr 2024	02 Apr 2024		
Machine Age	hrs	Client Info		3167	2840	2861		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
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		
ron	ppm	ASTM D5185m	>50	▲ 56	△ 62	3		
Chromium	ppm	ASTM D5185m	>4	2	3	0		
Nickel	ppm	ASTM D5185m	>2	0	1	<1		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	3	6	3		
_ead	ppm	ASTM D5185m	>30	0	2	1		
Copper	ppm	ASTM D5185m	>35	0	1	<1		
Γin	ppm	ASTM D5185m	>4	0	1	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	37	7	13		
Barium	ppm	ASTM D5185m	5	0	<1	0		
Molybdenum	ppm	ASTM D5185m	50	51	61	48		
Manganese	ppm	ASTM D5185m	0	<1	1	<1		
Magnesium	ppm	ASTM D5185m	560	580	554	535		
Calcium	ppm	ASTM D5185m	1510	1533	1796	1533		
Phosphorus	ppm	ASTM D5185m	780	817	782	762		
Zinc	ppm	ASTM D5185m	870	945	1029	966		
Sulfur	ppm	ASTM D5185m	2040	2724	3020	2934		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	15	19	6		
Sodium	ppm	ASTM D5185m		6	10	5		
Potassium	ppm	ASTM D5185m	>20	0	<1	1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0.3	0.1	0		
Vitration	Abs/cm	*ASTM D7624	>20	9.7	11.7	9.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	23.1	20.3		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	19.0	17.2		
Base Number (BN)	mg KOH/g	ASTM D2896		6.4	3.4	5.1		
(= · •)	99							

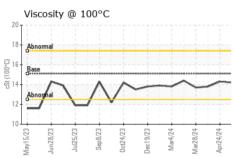


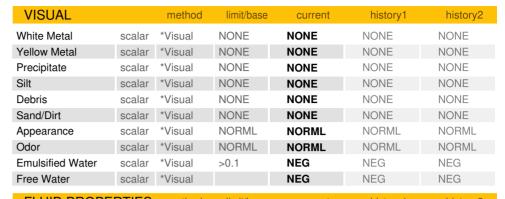
OIL ANALYSIS REPORT





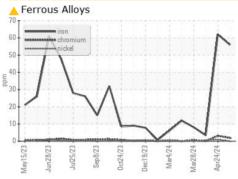


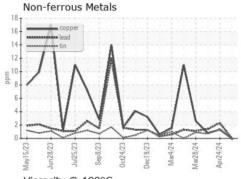


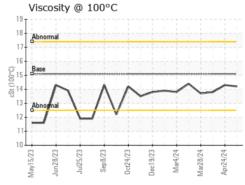


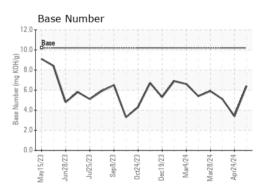
FLUID PHOP	ELLIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ	
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.3	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120150 Lab Number : 06195253

Unique Number : 11057376

Received : 30 May 2024 Tested : 31 May 2024

Diagnosed : 31 May 2024 - Sean Felton

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

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] 06195253 (Generated: 05/31/2024 15:10:48) Rev: 1

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