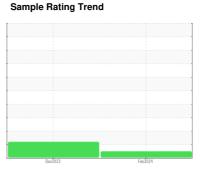


OIL ANALYSIS REPORT



NORMAL



Machine Id **834093**

Component

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.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

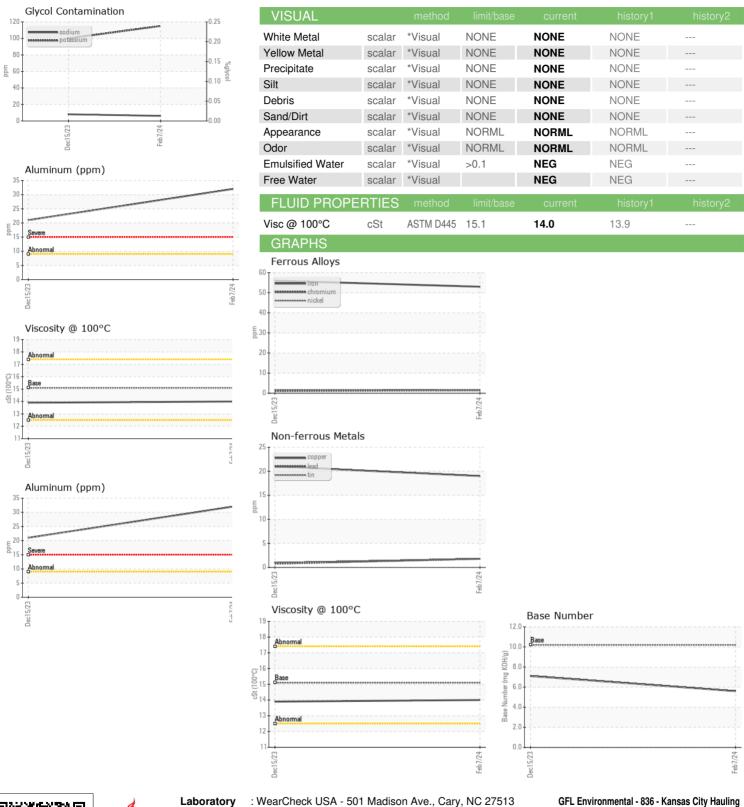
Fluid Condition

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

				_		
(29 QTS)						
CAMPLE INCOD	MATION		Dec2023	Feb 2024	la i a ta un cd	la i a ta un v
SAMPLE INFOR	MATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0108087	GFL0102426	
Sample Date		Client Info		07 Feb 2024	15 Dec 2023	
Machine Age	hrs	Client Info		255	226	
Oil Age	hrs	Client Info		226	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	53	56	
Chromium	ppm	ASTM D5185m		2	1	
Nickel	ppm	ASTM D5185m	>2	1	2	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm		>9	32	21	
Lead		ASTM D5185m	>30	2	<1	
	ppm					
Copper	ppm		>35	19	21	
Tin	ppm	ASTM D5185m	>4	2	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	22	32	
Barium	ppm	ASTM D5185m	5	3	4	
Molybdenum	ppm	ASTM D5185m	50	52	53	
Manganese	ppm	ASTM D5185m	0	14	15	
Magnesium	ppm	ASTM D5185m	560	778	811	
Calcium	ppm	ASTM D5185m	1510	1090	1172	
Phosphorus	ppm	ASTM D5185m	780	730	826	
Zinc	ppm	ASTM D5185m	870	877	932	
Sulfur	ppm	ASTM D5185m	2040	2339	2515	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	39	44	
Sodium	ppm	ASTM D5185m		6	8	
Potassium	ppm	ASTM D5185m	>20	115	<u> </u>	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.5	
Sulfation	Abs/.1mm	*ASTM D7415		20.6	20.5	
FLUID DEGRAI		method	limit/base	current	history1	history2
					,	,
Oxidation	Abs/.1mm	*ASTM D7414		18.9	17.3	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.6	7.1	



OIL ANALYSIS REPORT







Certificate L2367

Report Id: GFL836 [WUSCAR] 06089386 (Generated: 02/16/2024 12:01:37) Rev: 1

Laboratory Sample No.

Lab Number : 06089386

: GFL0108087 Unique Number : 10876831 Test Package : FLEET

Received : 14 Feb 2024 **Tested** : 15 Feb 2024

: 16 Feb 2024 - Don Baldridge Diagnosed

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Christopher Gilkey cgilkey@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)

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