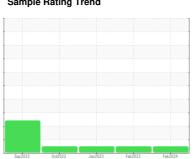


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 831051 Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

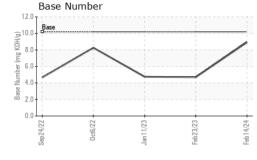
Fluid Condition

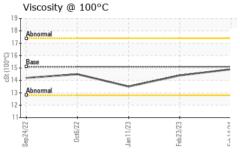
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

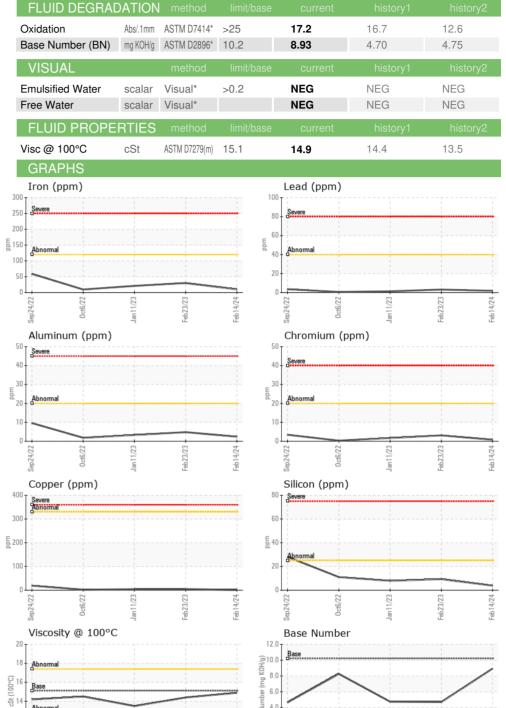
GEO ED 131140 (J.: 1_,	Sep 2022	0ct2022	Jan 2023 Feb 2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112412	GFL0070722	GFL0063714
Sample Date		Client Info		14 Feb 2024	23 Feb 2023	11 Jan 2023
Machine Age	hrs	Client Info		3216	1723	1723
Oil Age	hrs	Client Info		219	1075	580
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	10	30	21
Chromium	ppm	ASTM D5185(m)	>20	<1	3	2
Nickel	ppm	ASTM D5185(m)	>5	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	5	3
Lead	ppm	ASTM D5185(m)	>40	2	3	1
Copper	ppm	. ,	>330	<1	5	4
Tin	ppm	ASTM D5185(m)	>15	<1	2	1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	19	5	6
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	50	60	55
Manganese	ppm	ASTM D5185(m)	0	0	2	2
Magnesium	ppm	ASTM D5185(m)	560	542	655	572
Calcium	ppm	ASTM D5185(m)	1510	1570	1798	1641
Phosphorus	ppm	ASTM D5185(m)	780	751	849	707
Zinc	ppm	ASTM D5185(m)	870	869	989	900
Sulfur	ppm	ASTM D5185(m)	2040	2051	2134	2002
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	9	8
Sodium	ppm	ASTM D5185(m)		6	11	9
Potassium	ppm	ASTM D5185(m)	>20	1	7	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.1	9.5	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	24.1	18.9



OIL ANALYSIS REPORT









CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02616963 Unique Number : 5734073 Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : GFL0112412 **Tested**

Diagnosed

: 22 Feb 2024

Feb14/24

: 21 Feb 2024

: 22 Feb 2024 - Wes Davis

4.0

0.0

CA T1X 1X1 Contact: GFL Calgary calgarymaintenance@gflenv.com

T: F: (403)369-6163

Rocky View County, AB

220 Carmek Blvd

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Jan11/23