

OIL ANALYSIS REPORT

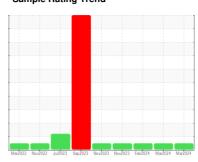
Sample Rating Trend

NORMAL



Machine Id **4554M** Component **Diesel Engine**

PETRO CANADA DURON HP 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

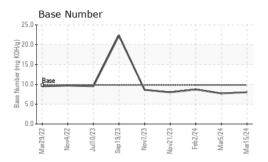
Fluid Condition

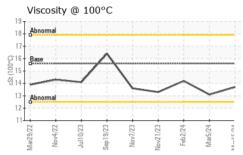
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104414	GFL0104334	GFL0110083
Sample Date		Client Info		15 Mar 2024	05 Mar 2024	02 Feb 2024
Machine Age	mls	Client Info		16752	23161	22960
Oil Age	mls	Client Info		0	600	600
Oil Changed	11115	Client Info		Changed	Changed	Changed
		Ciletti IIIIO				
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	14	17	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	2	2
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>150	1	<1	0
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	1	2
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		78	52	56
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1294	862	896
Calcium	ppm	ASTM D5185m		1400	919	939
Phosphorus	ppm	ASTM D5185m		1382	965	895
Zinc	ppm	ASTM D5185m		1748	1192	1157
Sulfur	ppm	ASTM D5185m		4697	2803	2930
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	4	6
Sodium	ppm	ASTM D5185m		21	12	0
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0
Nitration	Abs/cm	*ASTM D7624	>20	6.6	10.3	4.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.5	17.8
FLUID DEGRA	ADATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	18.8	13.1
Base Number (BN		ASTM D7414		8.0	7.7	8.7
	IIIU NUIT()	70 1 M D 70 20	5.0	0.0	1.1	0.7



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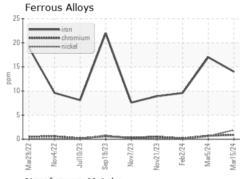


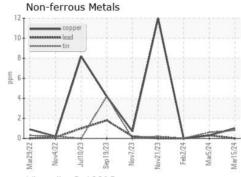


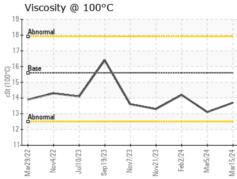
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

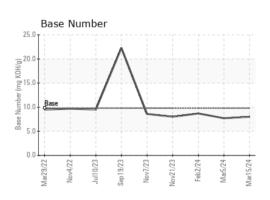
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.7	13.1	14.2

GRAPHS













Laboratory Sample No.

Lab Number : 06122133 Unique Number: 10936284

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104414

Test Package : FLEET

Received : 19 Mar 2024 **Tested** : 20 Mar 2024 Diagnosed : 21 Mar 2024 - Don Baldridge

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)