

NORMAL WEAR CONTAMINATION NORMAL **FLUID CONDITION ABNORMAL**

Current

History1

History2



Machine Id 514036 poner Diesel Engine

SAE 10W40 (--- LTR)

Test

UOM

Method

Limit/Abn

RECOMMENDATION

Resample at the next service interval to monitor.

NA7		
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All component wear rates are normal.

CONTAMINATION

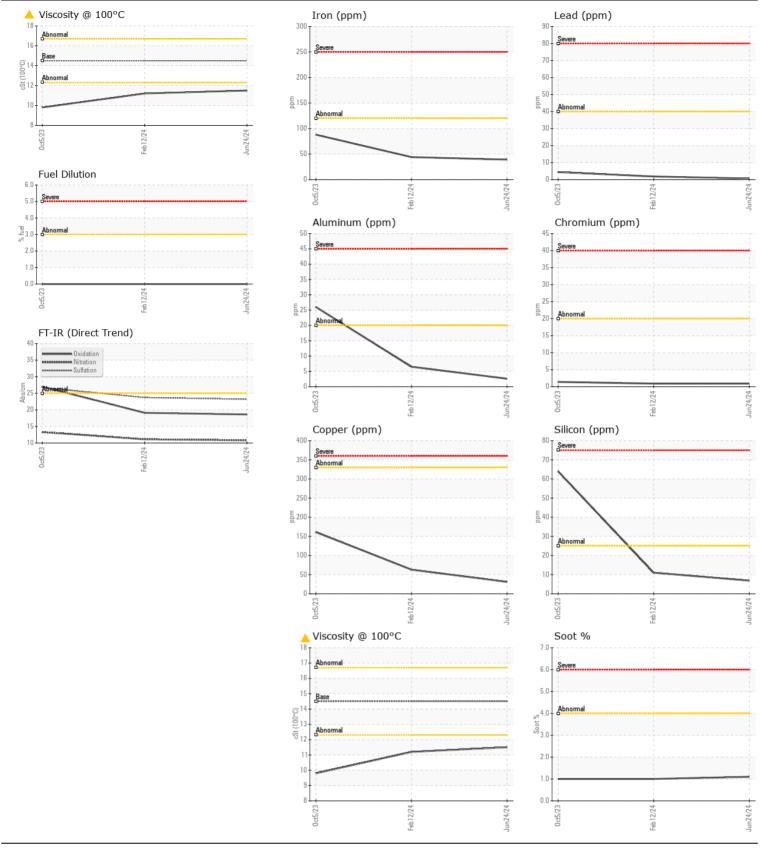
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Test	UOIVI	wethod	LIMII/ADD	Current	HIStory	HIStoryz
Sample Number		Client Info		GFL0120096	GFL0108177	GFL0090880
Sample Date		Client Info		24 Jun 2024	12 Feb 2024	05 Oct 2023
Machine Age	kms	Client Info		177521	118822	62270
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>120	39	44	88
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>5	2	2	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	6	26
Lead	ppm	ASTM D5185(m)	>40	<1	2	4
Copper	ppm	ASTM D5185(m)	>330	31	63	161
Tin	ppm	ASTM D5185(m)	>15	1	2	7
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	7	11	64
Potassium	ppm	ASTM D5185(m)	>20	4	12	66
Fuel	%	ASTM D3103(III)	>3.0	4 0.0	<1.0	<1.0
Water	70	WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	20.L	NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	1.1	1	1
Nitration	Abs/cm	ASTM D7624*	>20	10.8	11.1	13.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	23.7	26.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
 			20.L			
Sodium	ppm	ASTM D5185(m)	>401	2	2	4
Boron	ppm	ASTM D5185(m)		2	3	27
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		61	70	126
Manganese	ppm	ASTM D5185(m)		<1	<1	5
Magnesium	ppm	ASTM D5185(m)		935	943	688
Calcium	ppm	ASTM D5185(m)		1130	1155	1519
Phosphorus	ppm	ASTM D5185(m)		887	894	633
Zinc	ppm	ASTM D5185(m)		1186	1161	737
Sulfur	ppm	ASTM D5185(m)		1994	2122	1693
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	19.1	27.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	11.5	11.2	9.8

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Submitted By: Terilyn Smith Page 1 of 2



GFL Environmental - 245 - BJ Bear Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : GFL0120096 Received : 27 Jun 2024 2616 Cedar Creek Road Ayr, ON Lab Number : 02644292 Tested : 28 Jun 2024 ISO 17025:2017 Accredited Unique Number : 5801831 Diagnosed : 28 Jun 2024 - Kevin Marson CA NOB 1E0 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Erik Prpic To discuss this sample report, contact Customer Service at 1-800-268-2131. eprpic@gflenv.com T: (519)570-9000 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.