WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL

Machine Id

75 Component

Diesel Engine

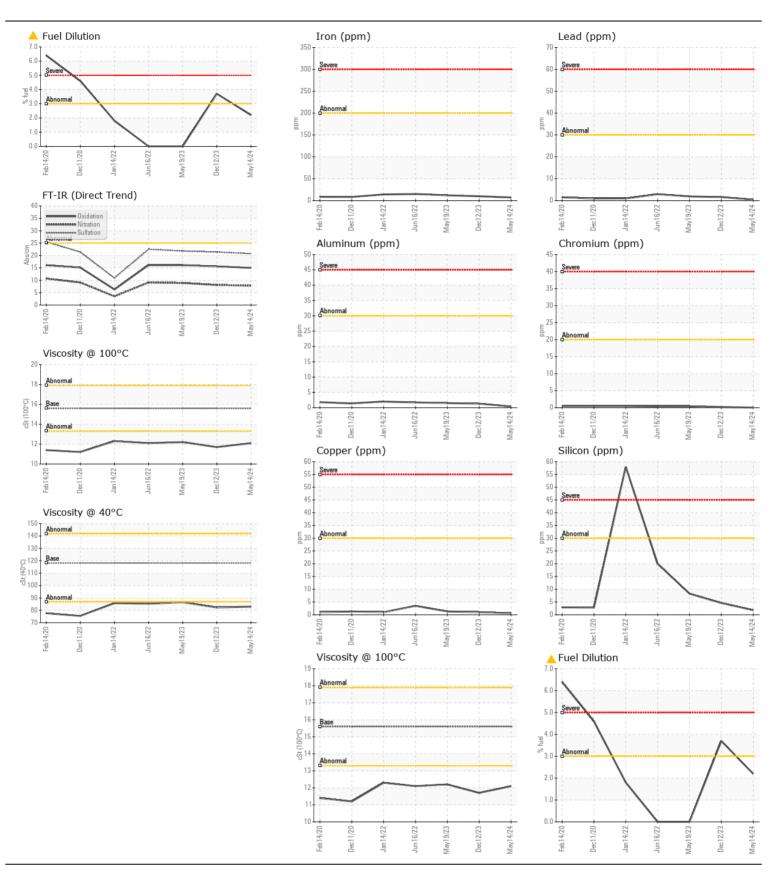
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number		Client Info		PC0083574	PC0071673	PC007165
	Sample Date		Client Info		14 May 2024	12 Dec 2023	19 May 202
	Machine Age	kms	Client Info		52249	44802	37234
	Oil Age	kms	Client Info		8000	8000	8000
	Filter Age	kms	Client Info		8000	8000	8000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				MARGINAL	ABNORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185(m)	>200	7	10	12
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>30	<1	1	2
	Lead	ppm	ASTM D5185(m)	>30	<1	2	2
	Copper	ppm	ASTM D5185(m)	>30	<1	1	1
	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>30	2	5	8
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
	Fuel	%	ASTM D7593*	>3.0	2.2	△ 3.7	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.9	1.3	1.3
	Nitration	Abs/cm	ASTM D7624*	>20	7.8	8.1	8.9
	Sulfation	Abs/.1mm			20.7	21.4	21.8
<u></u>	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	14	5	6
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		59	62	62
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m)		919	954	932
	Calcium	ppm	ASTM D5185(m)		1087	1117	1205
	Phosphorus	ppm	ASTM D5185(m)		978	1037	1141
	Zinc	ppm	ASTM D5185(m) ASTM D5185(m)		1145	1218	1225
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*		2579 15.0	2692 15.6	2801 16.1
	Visc @ 40°C	cSt	ASTM D7414* ASTM D7279(m)		83.0	82.3	86.5
	Visc @ 40 C	cSt	ASTM D7279(III) ASTM D7279(m)		12.1	11.7	12.2
	¥155 @ 100 O	501	, (O I WI DI LI V(III)	10.0	14.1	11.7	16.6

Viscosity Index (VI) Scale ASTM D2270* 139

134

140

135





CALA
Leng
American to 1001

ISO 17025:2017
Accredited

 Laboratory
 : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : PC0083574
 Received
 : 28 May 2024

 Lab Number
 : 02637915
 Tested
 : 29 May 2024

Diagnosed

Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Unique Number : 5787077

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.

BEAVER BUS LINES 339, ACHIBAULD ST WINNIPEG, MB

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: 29 May 2024 - Wes Davis