



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
15 VALLEY RD #1 GUELPH TRANSGEAR L090068524
 Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006185	PN0001098	PN0298882
Sample Date		Client Info		14 May 2024	24 Apr 2020	22 Aug 2018
Machine Age	hrs	Client Info		30	13	10
Oil Age	hrs	Client Info		8	4	10
Filter Age	hrs	Client Info		8	4	10
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	12	18	31
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
Lead	ppm	ASTM D5185(m)	>40	0	1	4
Copper	ppm	ASTM D5185(m)	>330	<1	4	10
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

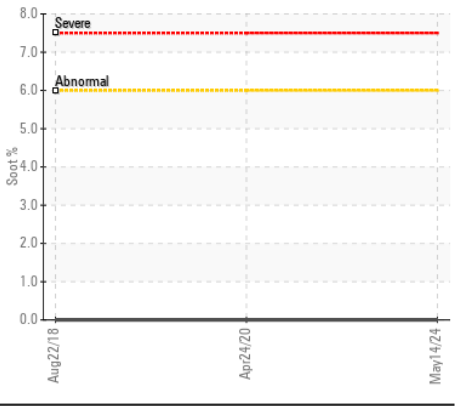
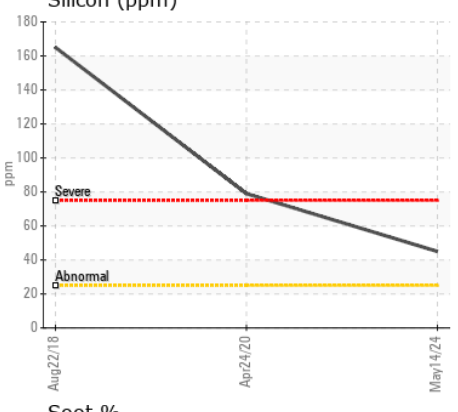
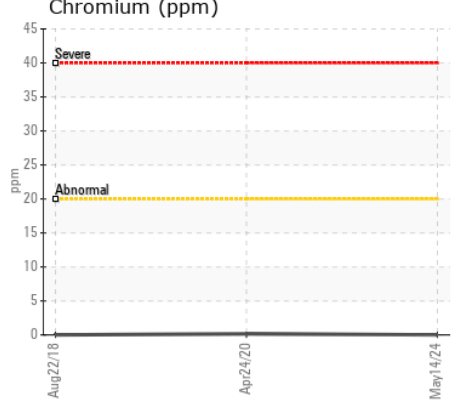
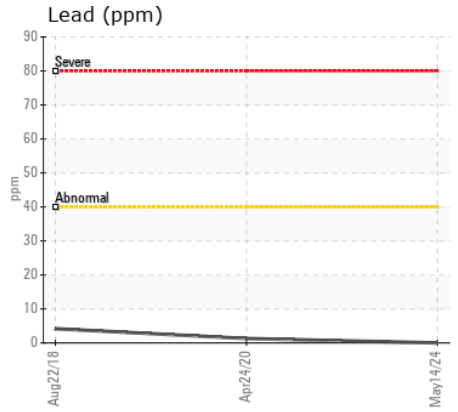
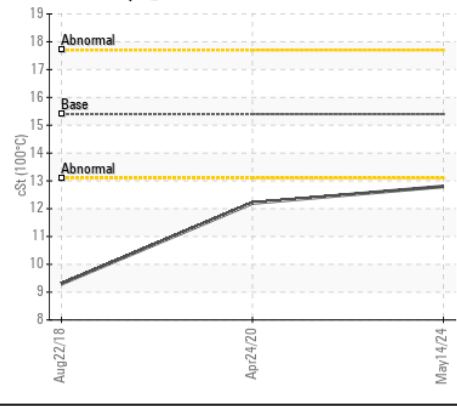
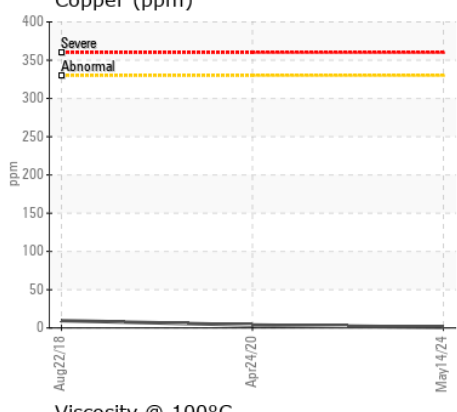
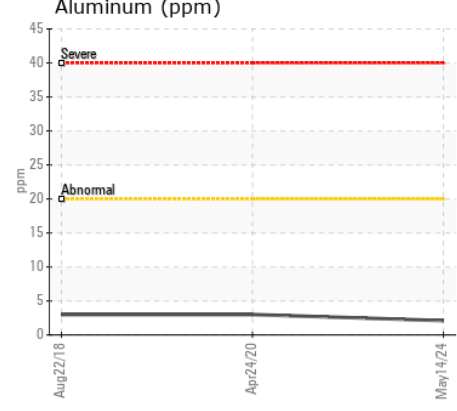
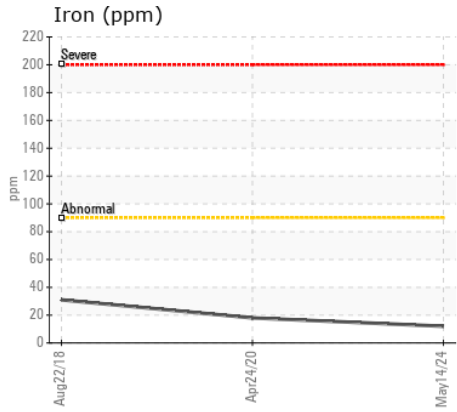
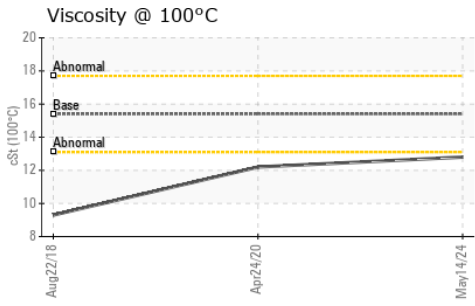
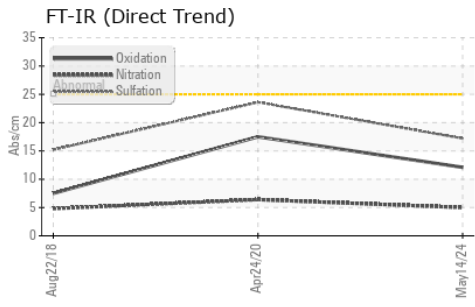
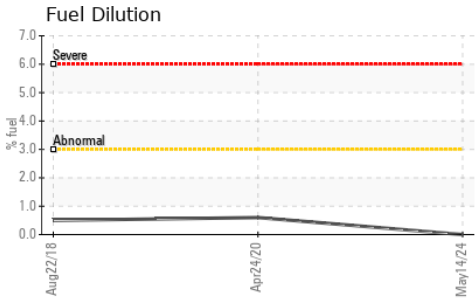
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	45	79	165
Potassium	ppm	ASTM D5185(m)	>20	1	2	<1
Fuel	%	ASTM D7593*	>3.0	0.0	0.6	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.0	6.4	4.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	23.6	15.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	3	3	5
Boron	ppm	ASTM D5185(m)		44	54	42
Barium	ppm	ASTM D5185(m)		0	<1	1
Molybdenum	ppm	ASTM D5185(m)		61	71	145
Manganese	ppm	ASTM D5185(m)		<1	2	3
Magnesium	ppm	ASTM D5185(m)		780	373	25
Calcium	ppm	ASTM D5185(m)	3780	1125	1668	1430
Phosphorus	ppm	ASTM D5185(m)	1370	924	702	490
Zinc	ppm	ASTM D5185(m)	1500	1066	822	615
Sulfur	ppm	ASTM D5185(m)	3800	2617	2052	1603
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.1	17.5	7.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	12.2	9.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006185 **Received** : 21 May 2024
Lab Number : 02636568 **Tested** : 23 May 2024
Unique Number : 5785730 **Diagnosed** : 23 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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.