

### WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### Machine Id **240** Component **Diesel Engine** Fluid **ESSO XD-3 EXTRA 15W40 (--- GAL)**

#### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR	

All component wear rates are normal.

## CONTAMINATION

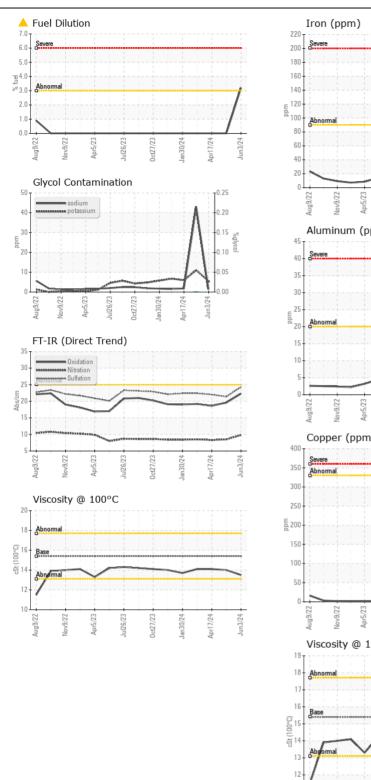
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

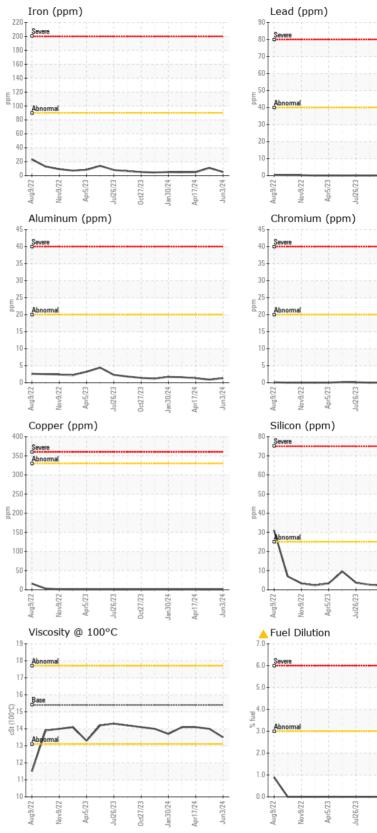
# FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0866472	WC0866474	WC0888985
Sample Date		Client Info		03 Jun 2024	03 Jun 2024	17 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		8716	8997	8656
Filter Age	hrs	Client Info		8716	8997	8656
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>90	11	5	5
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	1	1
Potassium	ppm	ASTM D5185(m)	>20	11	6	6
Fuel	%	ASTM D7593*	>3.0	<b>3</b> .2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>6	1.6	0.6	0
Nitration	Abs/cm	ASTM D7624*	>20	9.8	8.5	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	21.4	22.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	43	1	2
Boron	ppm	ASTM D5185(m)		80	109	116
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		14	13	14
Calcium	ppm	ASTM D5185(m)	3780	2131	2219	2271
Phosphorus	ppm	ASTM D5185(m)	1370	906	943	969
Zinc	ppm	ASTM D5185(m)	1500	1097	1147	1167
Sulfur	ppm	ASTM D5185(m)	3800	2701	2814	2916
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.3	19.6	18.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	14.0	14.1
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Contact/Location: Sean Malcolm - CITTHU Page 1 of 2





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vpr17/24

lun3/24

Oct27/23 lan30/24

20.02

CALA ISO 17025:2017 Accredited Laboratory To discuss th Test denoted Validity of res

 Accredited Laboratory
 Unique Number
 : 5789897
 Diagnosed
 : 11 Jun 2024 - Wes Davis

 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.

: WC0866472

: 02640735

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

Received

Tested

: 10 Jun 2024

: 11 Jun 2024

Contact/Location: Sean Malcolm - CITTHU Page 2 of 2

F: (807)344-0237

Laboratory

Sample No.

Lab Number