



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1170 INVICTA DR, OAKVILLE QUADRA 78045673

Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005894	PN0004539	PN0003208
Sample Date		Client Info		23 Feb 2024	02 Feb 2023	02 Feb 2022
Machine Age	hrs	Client Info		0	62	57
Oil Age	hrs	Client Info		2	0	25
Filter Age	hrs	Client Info		2	0	25
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	1	2	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	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	0	1
Copper	ppm	ASTM D5185(m)	>330	2	3	8
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

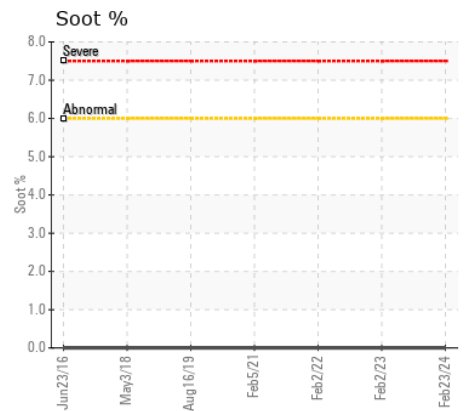
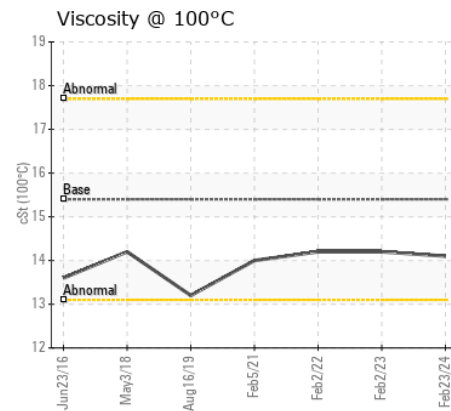
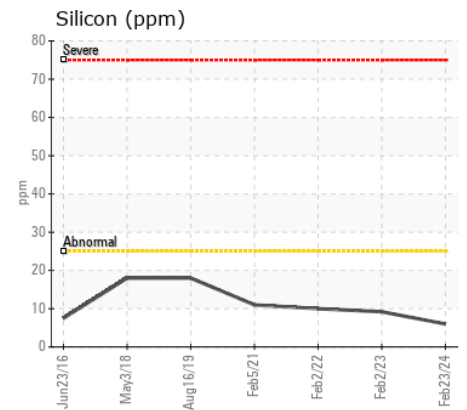
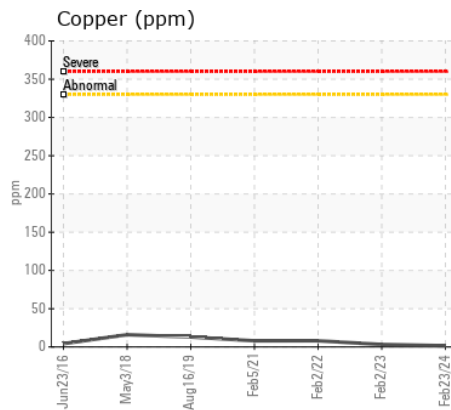
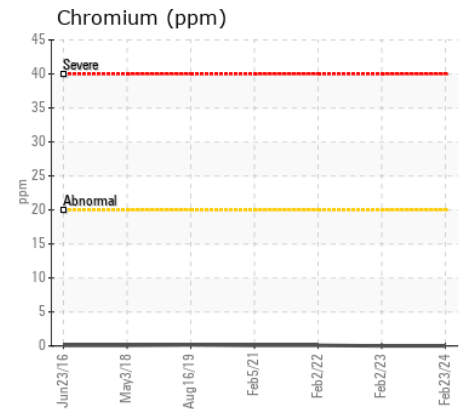
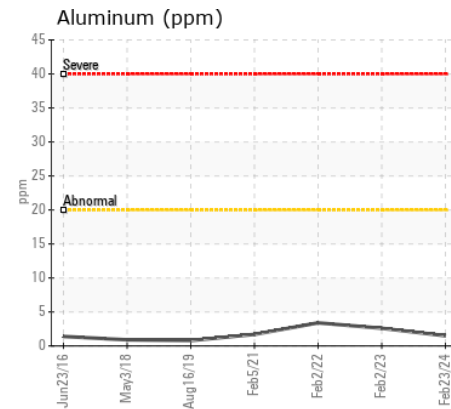
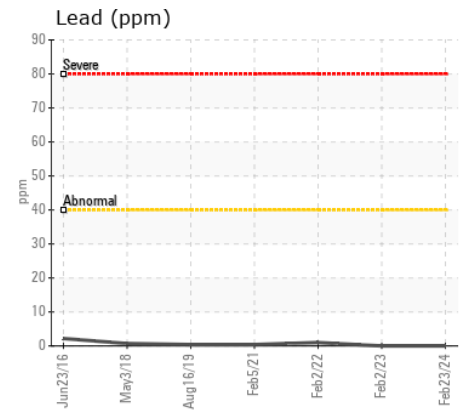
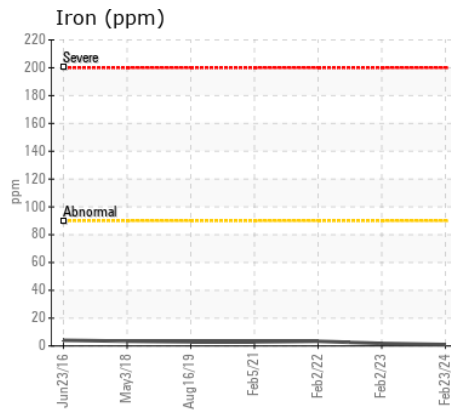
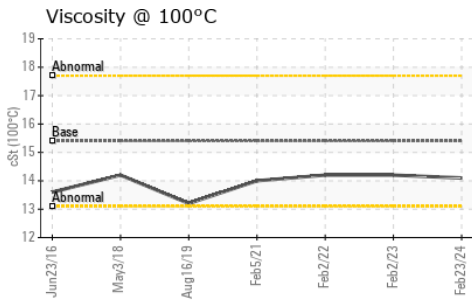
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	9	10
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	5.5	3.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.6	16.2	13.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	<1	2	3
Boron	ppm	ASTM D5185(m)		64	75	74
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		35	86	85
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		196	22	46
Calcium	ppm	ASTM D5185(m)	3780	1827	2236	2135
Phosphorus	ppm	ASTM D5185(m)	1370	956	1104	1074
Zinc	ppm	ASTM D5185(m)	1500	1048	1146	1157
Sulfur	ppm	ASTM D5185(m)	3800	3198	3259	3242
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	9.2	6.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.2	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005894
Lab Number : 02620463
Unique Number : 5737573
Test Package : MOB 1
Received : 07 Mar 2024
Tested : 07 Mar 2024
Diagnosed : 07 Mar 2024 - Wes Davis

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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.