



Machine Id
6400 VALLEY DR NIAGARA FALLS OUTSIDE CONMED HEALTH E580266

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (15 LTR)

RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005652	PN0004192	PN0003167
Sample Date		Client Info		02 Jan 2024	03 Jan 2023	04 Jan 2022
Machine Age	hrs	Client Info		208	199	192
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ATTENTION	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	6	5	5
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	3	4	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

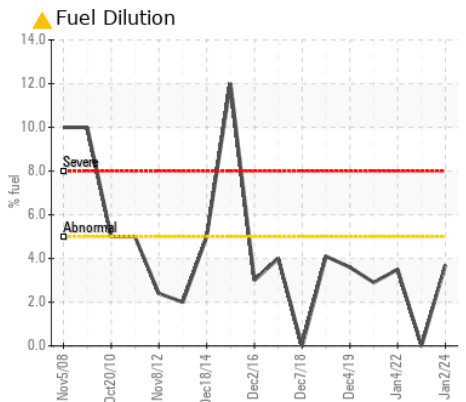
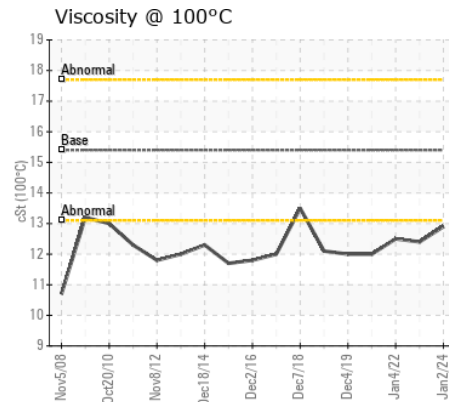
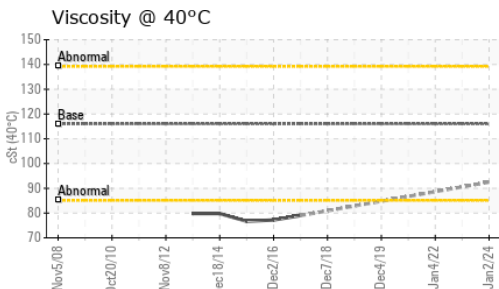
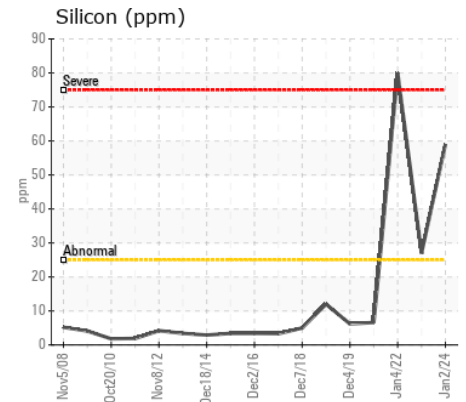
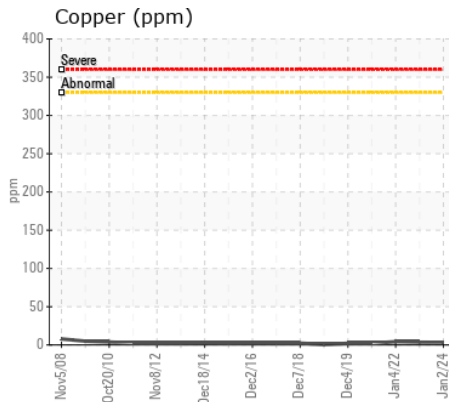
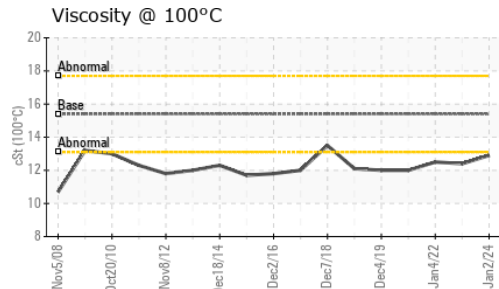
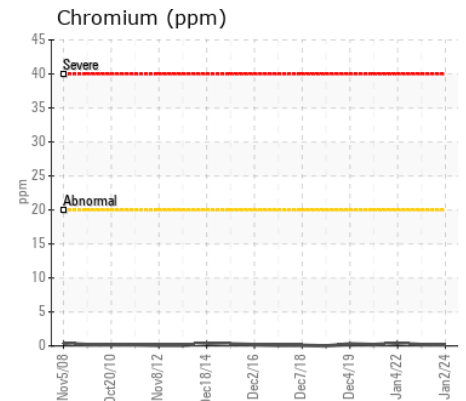
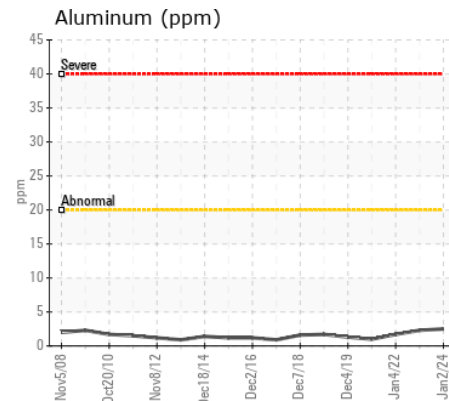
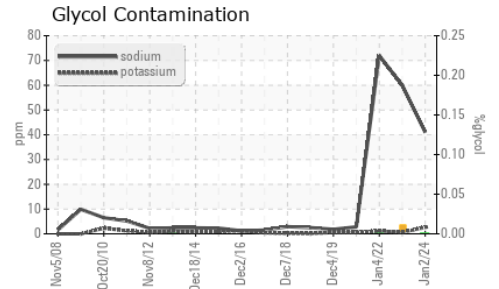
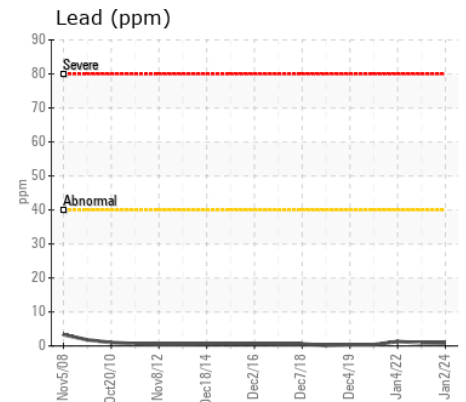
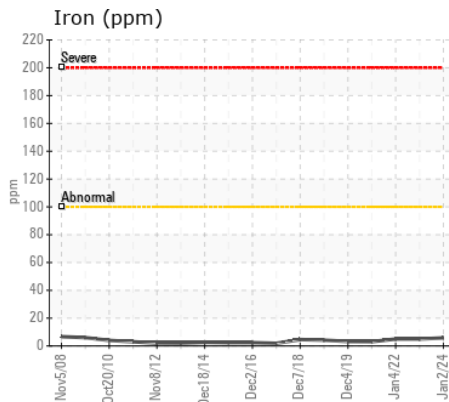
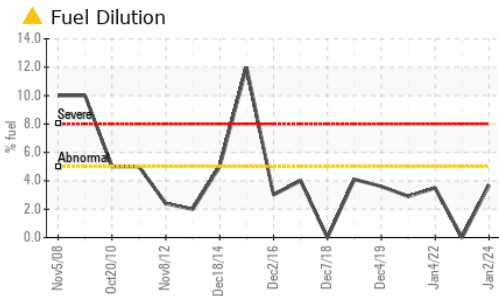
Light fuel dilution occurring. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	59	27	▲ 80
Potassium	ppm	ASTM D5185(m)	>20	3	<1	1
Fuel	%	ASTM D7593*	>5	▲ 3.7	<1.0	▲ 3.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	▲ 0.011	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.7	6.7	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	19.0	19.1
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	41	▲ 60	72
Boron	ppm	ASTM D5185(m)		57	61	55
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		35	44	36
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		232	287	377
Calcium	ppm	ASTM D5185(m)	3780	1909	2007	1860
Phosphorus	ppm	ASTM D5185(m)	1370	888	898	838
Zinc	ppm	ASTM D5185(m)	1500	968	950	933
Sulfur	ppm	ASTM D5185(m)	3800	2963	2781	2610
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	14.5	14.2
Visc @ 40°C	cSt	ASTM D7279(m)	116	92.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.9	12.4	12.5
Viscosity Index (VI)	Scale	ASTM D2270*	140	137	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005652 **Received** : 09 Jan 2024
Lab Number : 02607447 **Diagnosed** : 10 Jan 2024
Unique Number : 5708533 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI)

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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.