



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
NOVA 157
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0866640	WC0889043	WC0889167
Sample Date		Client Info		20 Jun 2024	18 Mar 2024	02 Feb 2024
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		8558	9103	8868
Filter Age	kms	Client Info		8558	9103	8868
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	38	38	36
Chromium	ppm	ASTM D5185(m)	>5	1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	6	2	3
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>100	1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

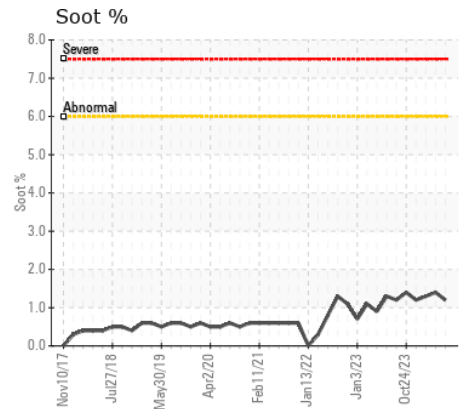
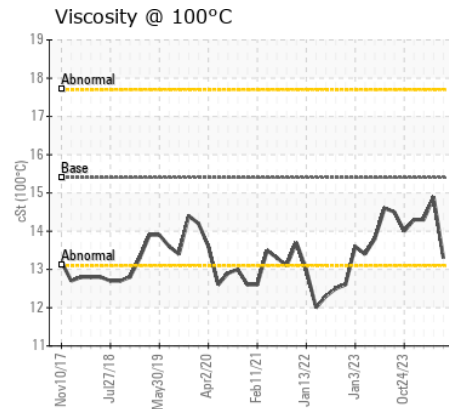
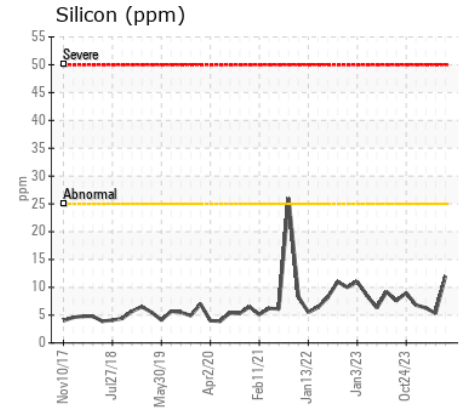
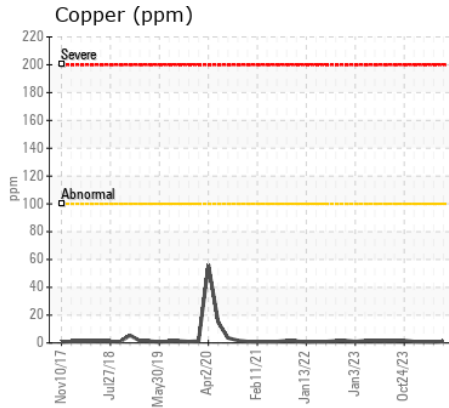
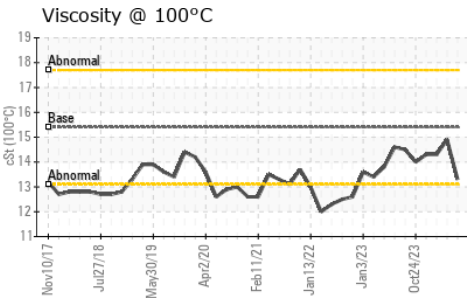
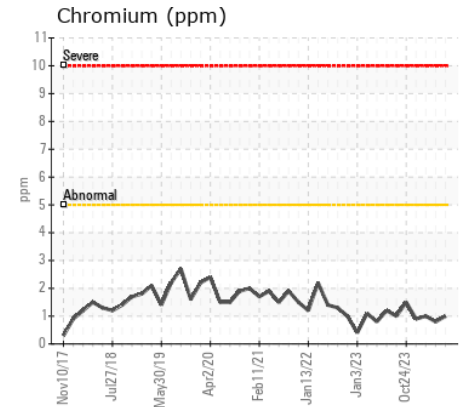
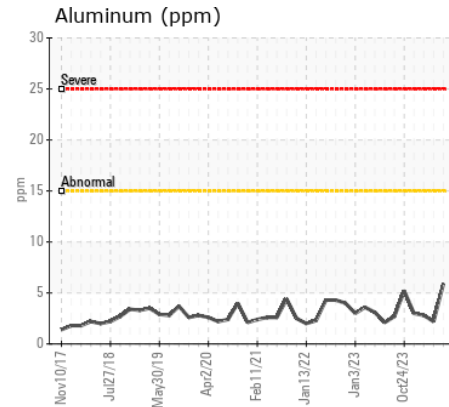
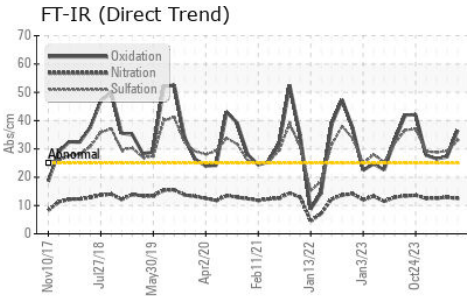
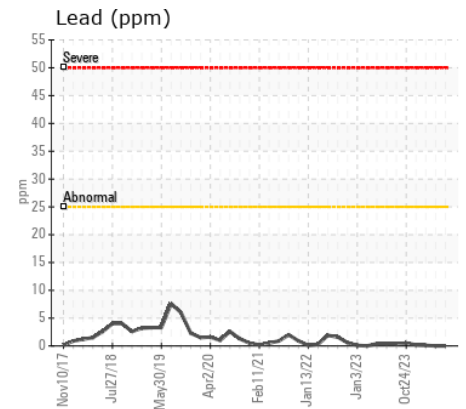
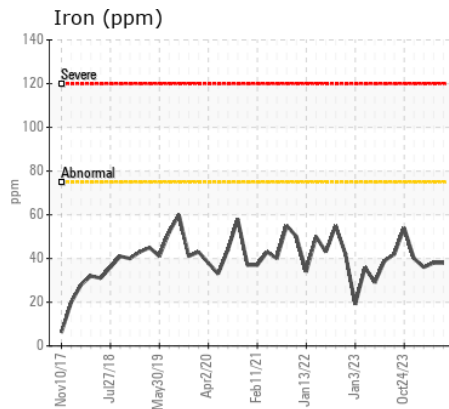
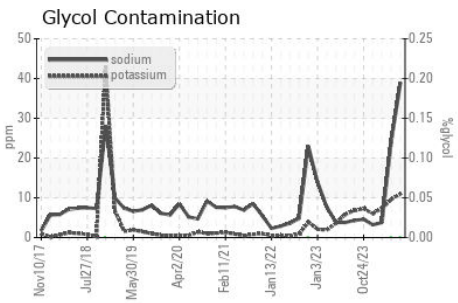
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	12	5	6
Potassium	ppm	ASTM D5185(m)	>20	11	10	7
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	NEG
Soot %	%	ASTM D7844*	>6	1.2	1.4	1.3
Nitration	Abs/cm	ASTM D7624*	>20	12.5	12.9	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	33.0	29.2	28.8
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	39	24	4
Boron	ppm	ASTM D5185(m)		71	81	82
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	<1	1
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		19	20	21
Calcium	ppm	ASTM D5185(m)	3780	2285	2380	2271
Phosphorus	ppm	ASTM D5185(m)	1370	928	977	955
Zinc	ppm	ASTM D5185(m)	1500	1174	1217	1157
Sulfur	ppm	ASTM D5185(m)	3800	2757	2787	2907
Oxidation	Abs/.1mm	ASTM D7414*	>25	36.5	27.2	26.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	14.9	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866640 **Received** : 04 Jul 2024
Lab Number : 02645382 **Tested** : 04 Jul 2024
Unique Number : 5802921 **Diagnosed** : 05 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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.