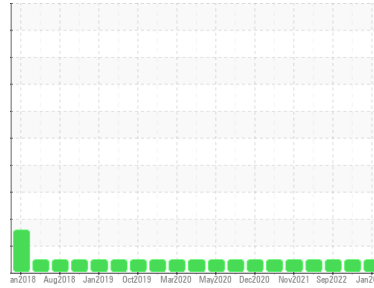




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
3000 Series
 Machine Id
Navistar 3245

Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (26 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0886686	WC0848012	WC0717255
Sample Date	Client Info		08 Jan 2024	09 Sep 2023	09 Sep 2022
Machine Age	mls	Client Info	521614	503543	474356
Oil Age	mls	Client Info	8071	18347	19758
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	52	47	46
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	4	4	6
Lead	ppm	ASTM D5185(m)	>25	2	<1	1
Copper	ppm	ASTM D5185(m)	>100	4	4	4
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	3	21	4
Barium	ppm	ASTM D5185(m)	0	0	2	0
Molybdenum	ppm	ASTM D5185(m)	50	56	17	62
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	927	783	972
Calcium	ppm	ASTM D5185(m)	1050	1104	1255	1152
Phosphorus	ppm	ASTM D5185(m)	995	902	736	1027
Zinc	ppm	ASTM D5185(m)	1180	1147	855	1214
Sulfur	ppm	ASTM D5185(m)	2600	2570	2432	2371
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

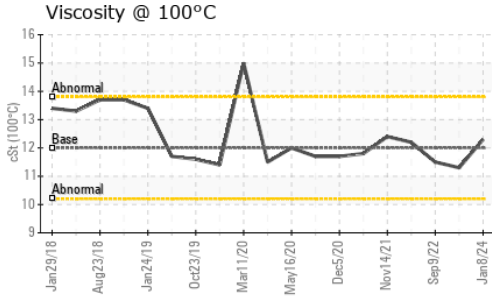
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	8	19	9
Sodium	ppm	ASTM D5185(m)		2	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	3	2

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.6	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.8	11.6	12.9
Sulfation	Abs./1mm	ASTM D7415*	>30	23.2	25.0	25.3



OIL ANALYSIS REPORT

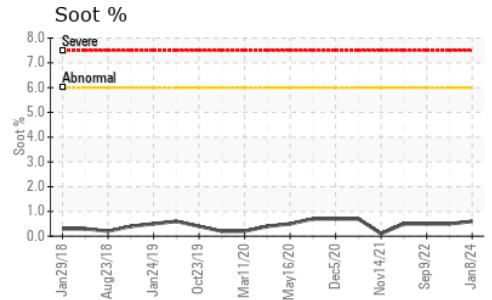
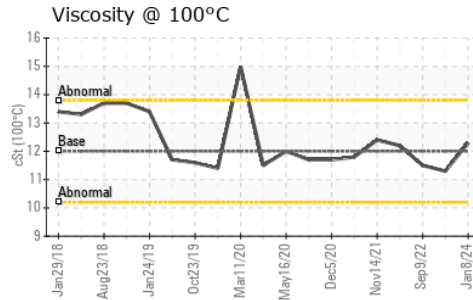
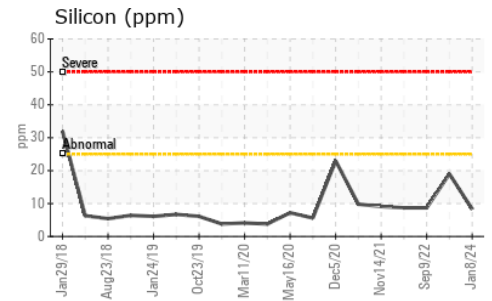
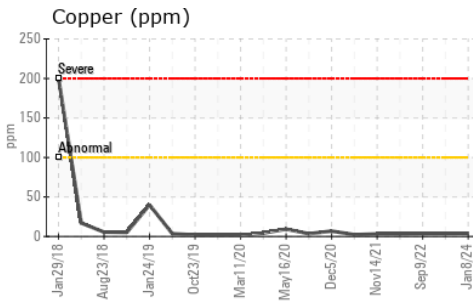
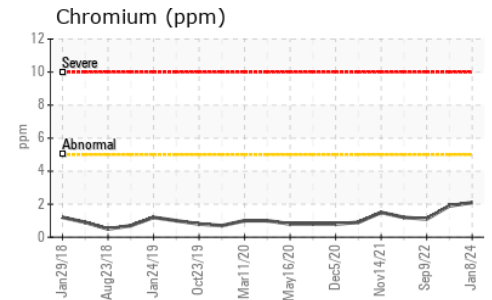
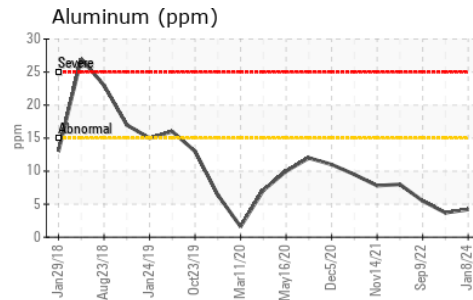
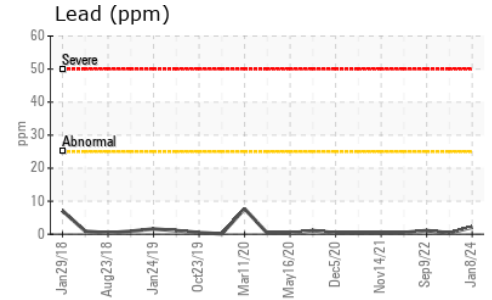
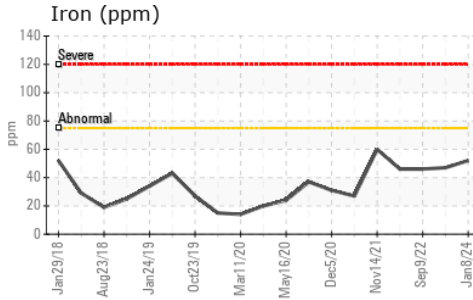


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	21.1	22.9	24.8

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG	

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.3	11.3	11.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOU LIN TRANSPORT (GARAGE)**
Sample No. : WC0886686 **Received** : 09 Jan 2024 1335 SHAWSON DRIVE
Lab Number : 02607406 **Diagnosed** : 09 Jan 2024 MISSISSAUGA, ON
Unique Number : 5708492 **Diagnostician** : Wes Davis CA L4W 1C4
Test Package : MOB 1 Contact: Travis Spence

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.

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