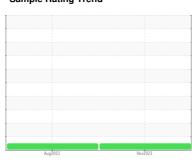


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **51968**

Component

Diesel Engine

Diesel Engine

DIESEL ENGINE OIL SAE 30 (--- LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

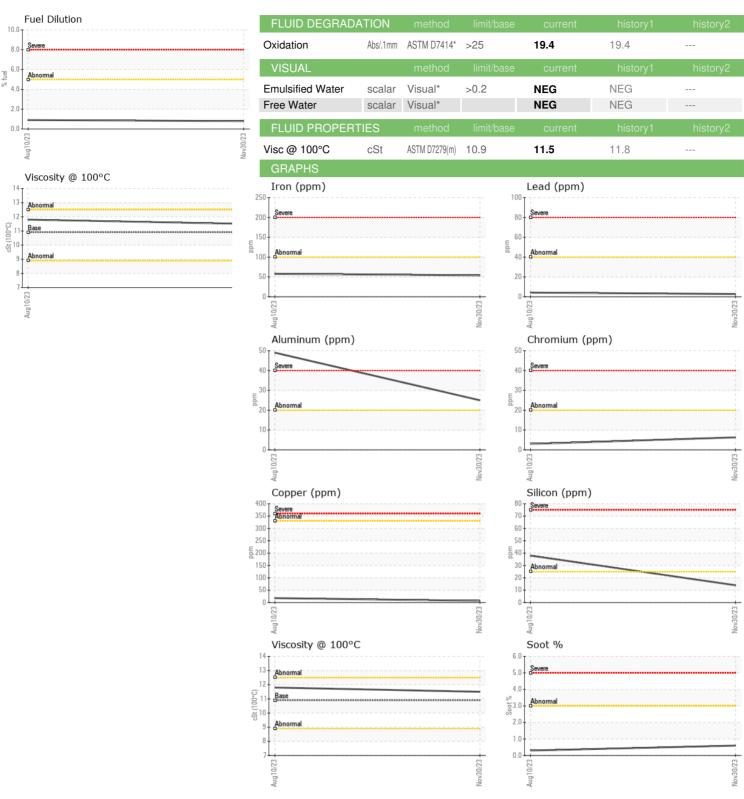
Fluid Condition

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

			Aug2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864553	WC0837216	
Sample Date		Client Info		30 Nov 2023	10 Aug 2023	
Machine Age	mls	Client Info		67977	34224	
Oil Age	mls	Client Info		33753	31764	
Oil Changed	11110	Client Info		Changed	Changed	
Sample Status		Chorte triio		NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
	•				•	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	54	58	
Chromium	ppm	ASTM D5185(m)	>20	6	3	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	25	49	
Lead	ppm	ASTM D5185(m)	>40	3	4	
Copper	ppm	ASTM D5185(m)	>330	7	18	
Tin	ppm	ASTM D5185(m)	>15	2	3	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	4	36	
Barium	ppm	ASTM D5185(m)	10	8	4	
Molybdenum	ppm	ASTM D5185(m)	100	62	63	
Manganese	ppm	ASTM D5185(m)		1	5	
Magnesium	ppm	ASTM D5185(m)	450	915	469	
Calcium	ppm	ASTM D5185(m)	3000	1123	1698	
Phosphorus	ppm	ASTM D5185(m)	1150	951	988	
Zinc	ppm	ASTM D5185(m)	1350	1219	1169	
Sulfur	ppm	ASTM D5185(m)	4250	2177	2293	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	14	38	
Sodium	ppm	ASTM D5185(m)	>75	4	4	
Potassium	ppm	ASTM D5185(m)	>20	48	133	
Fuel	%	ASTM D7593*	>5	0.8	0.9	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.3	
Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.4	
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	22.4	23.6	
Canadon	, 100,		- 00		20.0	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) : WC0864553 : 02600883

: 5693968

Received Diagnosed

: 05 Dec 2023 : 06 Dec 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

MISSISSAUGA, ON **CA L4W 1C4** Contact: Patrick Morin

pmorin@manitoulintransport.com

1335 SHAWSON DRIVE

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.

F: (905)564-6361

T: