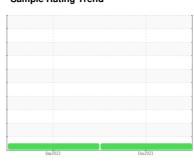


OIL ANALYSIS REPORT

Sample Rating Trend







3301
Component
Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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.

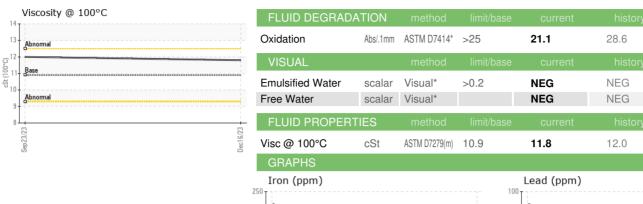
Fluid Condition

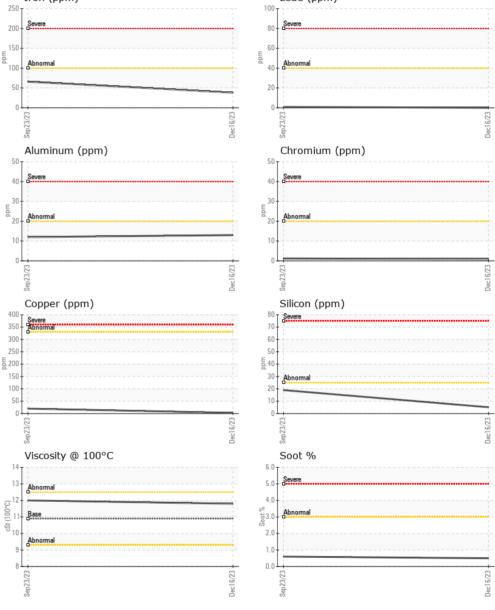
The condition of the oil is acceptable for the time in service.

			Sep2023	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828271	WC0848029	
Sample Date		Client Info		16 Dec 2023	23 Sep 2023	
Machine Age	mls	Client Info		43036	21780	
Oil Age	mls	Client Info		21256	21381	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	38	66	
Chromium	ppm	ASTM D5185(m)	>20	<1	1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	13	12	
Lead	ppm	ASTM D5185(m)	>40	0	<1	
Copper	ppm	ASTM D5185(m)	>330	3	20	
Tin	ppm	ASTM D5185(m)	>15	<1	1	
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	2	23	
Barium	ppm	ASTM D5185(m)	10	<1	5	
Molybdenum	ppm	ASTM D5185(m)	100	61	55	
Manganese	ppm	ASTM D5185(m)		<1	6	
Magnesium	ppm	ASTM D5185(m)	450	1002	870	
Calcium	ppm	ASTM D5185(m)	3000	1133	1215	
Phosphorus	ppm	ASTM D5185(m)	1150	1041	739	
Zinc	ppm	ASTM D5185(m)	1350	1225	916	
Sulfur	ppm	ASTM D5185(m)	4250	2601	1949	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	19	
Sodium	ppm	ASTM D5185(m)		2	6	
Potassium	ppm	ASTM D5185(m)	>20	19	20	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.6	
Nitration	Abs/cm	ASTM D7624*	>20	11.0	13.0	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	25.7	



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: 02604902

: WC0828271 : 5697987

Recieved Diagnosed Diagnostician : Wes Davis

: 22 Dec 2023 : 22 Dec 2023

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) 1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Contact: Patrick Morin pmorin@manitoulintransport.com

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: