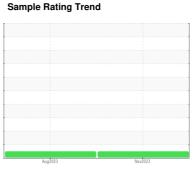


OIL ANALYSIS REPORT

Samp



NORMAL



Machine Id 56169 Component

Diesel Engine

PETRO CANADA DURON SAE 10W30 (--- LTR)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

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.

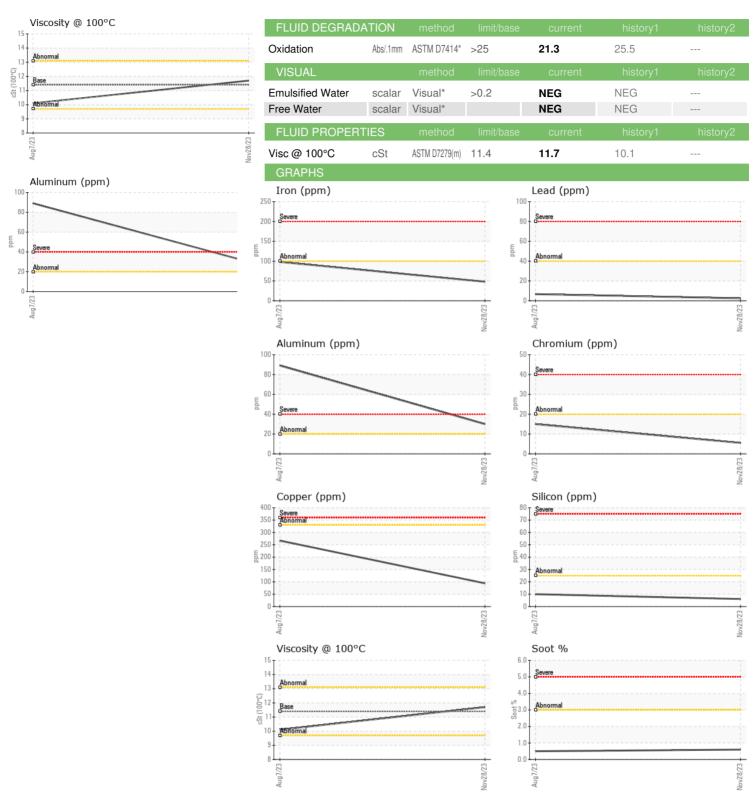
Fluid Condition

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

TR)			Aug2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828274	WC0837239	
Sample Date		Client Info		28 Nov 2023	07 Aug 2023	
Machine Age	mls	Client Info		77434	38351	
Oil Age	mls	Client Info		39083	37273	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.3	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	48	98	
Chromium	ppm	ASTM D5185(m)	>20	6	15	
Nickel	ppm	ASTM D5185(m)	>4	<1	1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	30	89	
_ead	ppm	ASTM D5185(m)	>40	2	7	
Copper	ppm	ASTM D5185(m)	>330	94	267	
Tin	ppm	ASTM D5185(m)	>15	<1	5	
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)	1	3	24	
Barium	ppm	ASTM D5185(m)	1	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	1	59	42	
Manganese	ppm	ASTM D5185(m)	1	<1	5	
Magnesium	ppm	ASTM D5185(m)	10	928	557	
Calcium	ppm	ASTM D5185(m)	2942	1156	1683	
Phosphorus	ppm	ASTM D5185(m)	1102	889	732	
Zinc	ppm	ASTM D5185(m)		1154	858	
Sulfur	ppm	ASTM D5185(m)	3903	1660	1503	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	10	
Sodium	ppm	ASTM D5185(m)		3	6	
Potassium	ppm	ASTM D5185(m)	>20	59	183	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.5	
Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	24.4	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0828274 : 02600871 : 5693956 Test Package : MOB 1

Received : 05 Dec 2023 Diagnosed Diagnostician

: 05 Dec 2023 : Wes Davis

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

Contact: Travis Spence tspence@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: