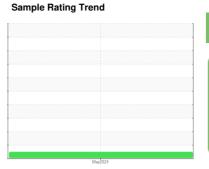


OIL ANALYSIS REPORT



Machine Id MACK 925054 (S/N 1M2AV02C9FM012660) Diesel Engine

PETRO CANADA DURO





DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

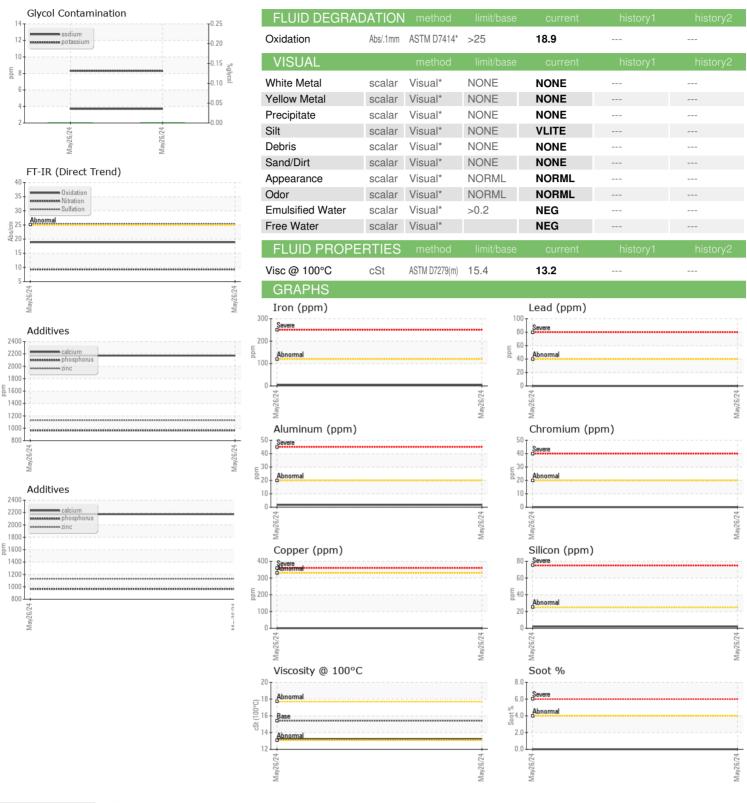
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

N SHP 15W40 (-	GAL)			May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	IIVIA I ION		IIIIIIVDase			HISTOLYZ
Sample Number		Client Info		GFL0109551		
Sample Date		Client Info		26 May 2024		
/lachine Age	kms	Client Info		4351		
Oil Age	kms	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Nater		WC Method	>0.2	NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	4		
Chromium	ppm	ASTM D5185(m)	>20	0		
lickel	ppm	ASTM D5185(m)	>5	0		
- itanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	2		
_ead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	<1		
in	ppm	ASTM D5185(m)	>15	0		
Antimony		ASTM D5185(m)	>10	0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(III) ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(III) ASTM D5185(m)		0		
	ррпп	. ,	lineit/lenen			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	101		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	13		
Calcium	ppm	ASTM D5185(m)	1070	2173		
Phosphorus	ppm	ASTM D5185(m)	1150	966		
Zinc	ppm	ASTM D5185(m)	1270	1130		
Sulfur	ppm	ASTM D5185(m)	2060	2919		
₋ithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	8		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0		
Nitration	Abs/cm	ASTM D7624*	>20	9.3		
		ASTM D7415*				



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental Inc. - 536 - Fort frances Lab Number : 02637612

: GFL0109551 Unique Number : 5786774

Received **Tested**

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, Visual)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 27 May 2024

: 27 May 2024 : 27 May 2024 - Wes Davis

CA P9A 3M2 Contact: Jodi Holden jholden@gflenv.com T: (807)274-6255

Fire #174 Hwy 11/71

Fort Frances, ON

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL536 [WCAMIS] 02637612 (Generated: 05/27/2024 16:28:01) Rev: 1

Contact/Location: Jodi Holden - GFL536