WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

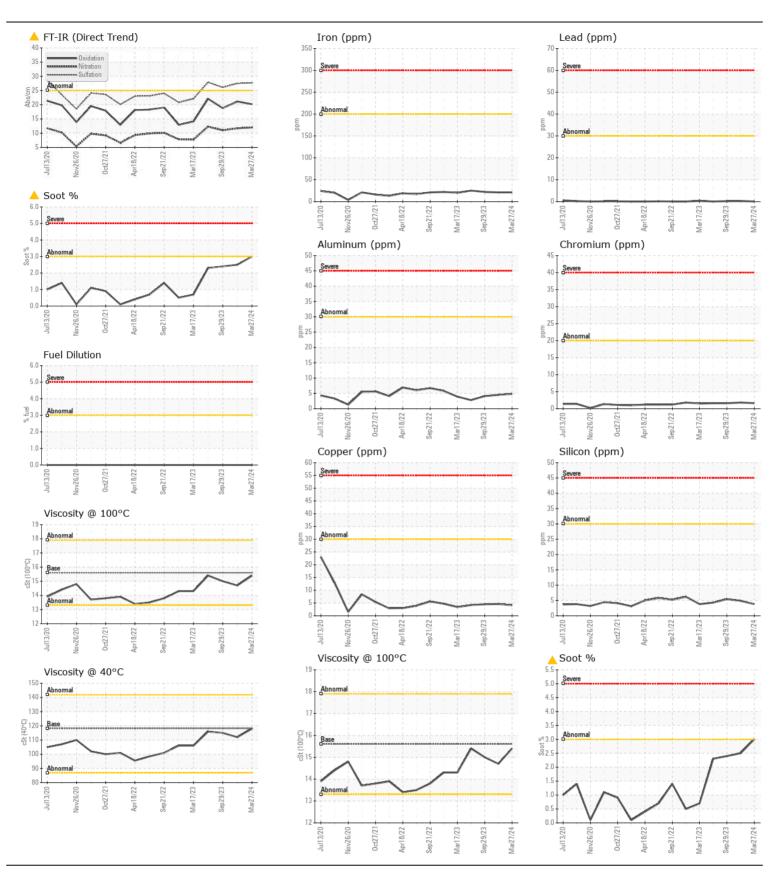
Machine Id

FREIGHTLINER R718

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- I TR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted.	Sample Number		Client Info		PC0081828	PC0082823	PC008286
	Sample Date		Client Info		27 Mar 2024	13 Jan 2024	29 Sep 202
	Machine Age	kms	Client Info		946751	967246	935731
	Oil Age	kms	Client Info		29505	58967	27452
	Filter Age	kms	Client Info		29505	58967	27452
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>200	21	21	22
	Chromium	ppm	ASTM D5185(m)	>20	2	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>30	5	4	4
	Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>30	4	5	4
	Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>30	4	5	5
	Potassium	ppm	ASTM D5185(m)	>20	<1	2	17
Light concentration of carbon/soot present in the oil. Tests indicate that there is no fuel present in the oil.	Fuel	%	ASTM D7593*	>3.0	0.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	0.0
	Soot %	%	ASTM D7844*	>3	<u>^</u> 3	2.5	2.4
	Nitration	Abs/cm	ASTM D7624*	>20	12.0	11.7	11.0
	Sulfation	Abs/.1mm	ASTM D7415*	>30	27.7	27.5	26.1
	Silt	scalar	Visual*	NONE	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	2
The ellipse because a series able the terms of a standard series.	Boron	ppm	ASTM D5185(m)	0	1	2	3
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)	0	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)	60	63	65	64
	Manganese	ppm	ASTM D5185(m)	0	<1	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	1002	1000	1007
	Calcium	ppm	ASTM D5185(m)		1113	1132	1113
	Phosphorus	ppm	ASTM D5185(m)		1005	1029	1032
	Zinc	ppm	ASTM D5185(m)	1270	1235	1275	1258
	Sulfur	ppm	ASTM D5185(m)	2060	2020	2245	2153
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	21.1	18.8
	Visc @ 40°C	cSt	ASTM D7279(m)	118.2	118	112	115
	Visc @ 100°C	cSt	ASTM D7279(m)	15.6	15.4	14.7	15.0
	Viscosity Index (VI)	Scale	ASTM D2270*	139	136	134	135





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02636280

: PC0081828 Unique Number : 5785442

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)

: 17 May 2024 : 21 May 2024 : 21 May 2024 - Wes Davis

RENEWABLE FOREST PRODUCTS 59 TWIN CITY CROSS RD

ROSSLYN, ON CA P7C 5M9 Contact: Service Manager

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

purchasing@renewablefp.com T: (807)939-1182

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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