WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

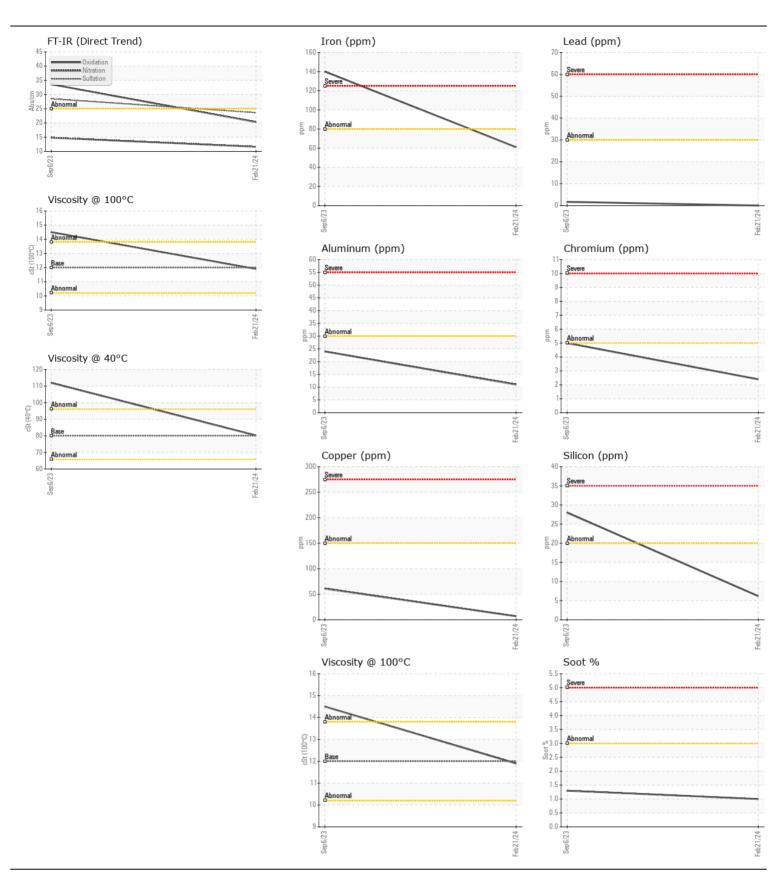
Machine Id

FREIGHTLINER 162

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PC0083930	PC0075181	
	Sample Date		Client Info		21 Feb 2024	06 Sep 2023	
	Machine Age	kms	Client Info		48628	27783	
	Oil Age	kms	Client Info		20845	27783	
	Filter Age	kms	Client Info		20845	27783	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>80	61	140	
	Chromium	ppm	ASTM D5185(m)		2	5	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		0	<1	
	Titanium	ppm	ASTM D5185(m)	_	0	<1	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)		11	24	
	Lead	ppm	ASTM D5185(m)	>30	0	2	
	Copper	ppm	ASTM D5185(m)		7	61	
	Tin	ppm	ASTM D5185(m)		0	<1	
	Vanadium	ppm	ASTM D5185(m)	-	0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
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.	0.11.		AOTM DE (OF ()		• • • • • • • • • • • • • • • • • • • •		
	Silicon	ppm	ASTM D5185(m)		6	28	
	Potassium	ppm	ASTM D5185(m)		26	43	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	ASTM D7844*		1	1.3	
	Nitration	Abs/cm	ASTM D7624*	>20	11.6	14.8	
	Sulfation	Abs/.1mm	ASTM D7415*		23.6	28.5	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris		Visual*	NONE	VLITE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	6	
	Boron	ppm	ASTM D5185(m)	2	6	2 9	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)	0	<1	6	
	Molybdenum	ppm	ASTM D5185(m)	50	58	40	
	Manganese	ppm	ASTM D5185(m)	0	<1	7	
	Magnesium	ppm	ASTM D5185(m)	950	883	550	
	Calcium	ppm	ASTM D5185(m)	1050	1087	1615	
	Phosphorus	ppm	ASTM D5185(m)	995	866	734	
	Zinc	ppm	ASTM D5185(m)	1180	1120	860	
	Sulfur	ppm	ASTM D5185(m)	2600	2265	1715	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	△ 33.6	
	Visc @ 40°C	cSt	ASTM D7279(m)	80.1	80.2	<u> </u>	
	Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.9	<u> </u>	
		Scale	ASTM D2270*		142	132	





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ROSS TOWING & TRANSPORTATION SERVICES INC Laboratory Lab Number : 02626845

: PC0083930 Unique Number : 5759977

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

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

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.

: 05 Apr 2024 : 05 Apr 2024

: 05 Apr 2024 - Wes Davis

LONDON, ON **CA N6N 1C3** Contact: Dave Ross chris@rosstowing.ca T: (519)685-1212 F: (519)668-5790

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