WEAR CONTAMINATION FLUID CONDITION

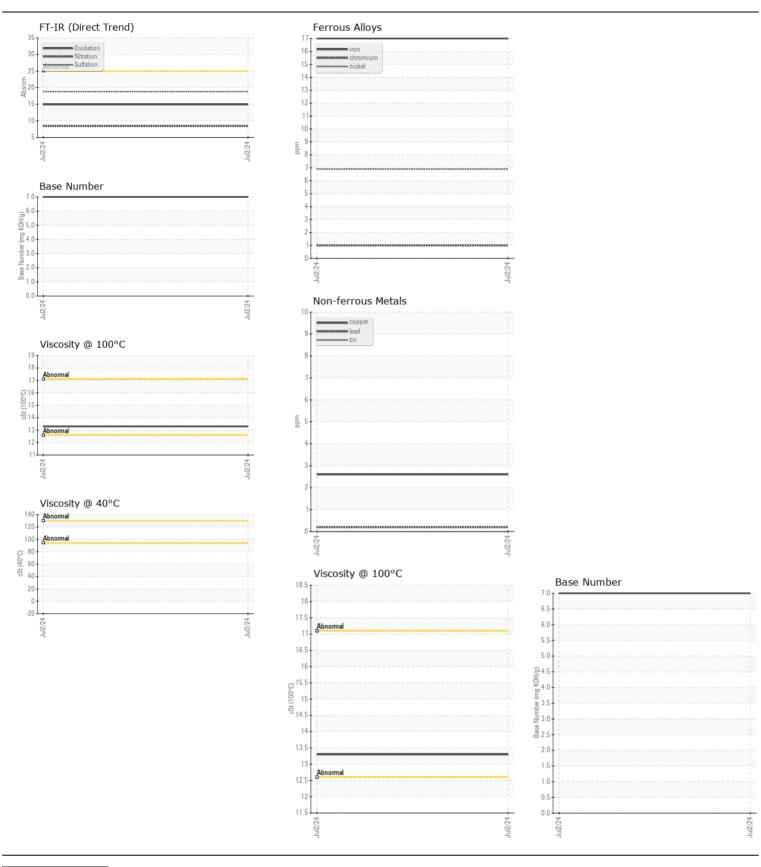
NORMAL NORMAL



Machine Id
413055
Component
Diesel Engine
Fluid

PETRO CANADA 15W40 (40 GAL)

TETHO CANADA 100140 (40 CA							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0114719		
	Sample Date		Client Info		02 Jul 2024		
	Machine Age	hrs	Client Info		920		
	Oil Age	hrs	Client Info		920		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	<b>&gt;120</b>	17		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		7		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			VIOUGI	TVOIVE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
	Potassium	ppm	ASTM D5185m	>20	24		
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>4	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
ELLUD GONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		5		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		59		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		1025		
	Calcium	ppm	ASTM D5185m		1224		
	Phosphorus	ppm	ASTM D5185m		1092		
	Zinc	ppm	ASTM D5185m		1323		
	Sulfur	ppm	ASTM D5185m		3654		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
	Base Number (BN)				7.0		
	Visc @ 100°C	cSt	ASTM D445		13.3		







Unique Number : 11114605

Laboratory Sample No. Lab Number : 06231112

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0114719

Received **Tested** Diagnosed

: 08 Jul 2024 : 10 Jul 2024 : 10 Jul 2024 - Jonathan Hester

GFL Environmental - 412 - Northern Michigan TS 348 US-41

Negaunee, MI US 49866 Contact: Service Manager

Test Package : FLEET ( Additional Tests: KV40 ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: