WEAR CONTAMINATION FLUID CONDITION

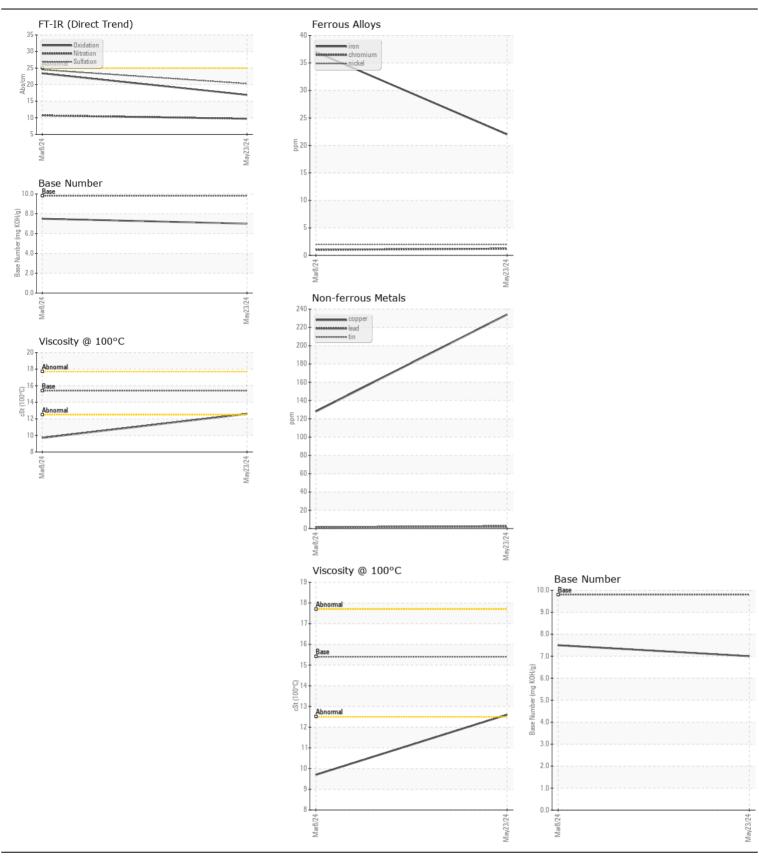
NORMAL NORMAL



Machine Id
914060
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION		OOW		LIIIIUADII	GFL0086991	GFL0086975	
Resample at the next service interval to monitor.	Sample Number		Client Info				
·	Sample Date	hvo	Client Info		23 May 2024	08 Mar 2024	
	Machine Age	hrs	Client Info		1639	600	
	Oil Age	hrs	Client Info		339	600	
	Filter Age	hrs	Client Info		339	600	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>120	22	37	
	Chromium	ppm	ASTM D5185m	>20	1	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>5	2	2	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	1	0	
	Aluminum	ppm	ASTM D5185m	>20	3	5	
	Lead	ppm	ASTM D5185m	>40	3	1	
	Copper	ppm	ASTM D5185m	>330	234	128	
	Tin	ppm	ASTM D5185m	>15	2	2	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	68	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		10	8	
There is no indication of any contamination in the oil.	Fuel			>3.0	<1.0	0.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.7	
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	24.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	
TESIS SSINSTITION	Boron	ppm	ASTM D5185m	0	10	219	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	1	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		67	117	
	Manganese	ppm	ASTM D5185m		2	6	
	Magnesium	ppm	ASTM D5185m		908	678	
	Calcium	ppm	ASTM D5185m		1151	1474	
	Phosphorus	ppm	ASTM D5185m		1001	664	
	Zinc	ppm	ASTM D5185m		1154	787	
	Sulfur	ppm	ASTM D5185m		2946	2573	
	Oxidation	Abs/.1mm	*ASTM D7414		16.9	23.4	
	Base Number (BN)		ASTM D2896		7.0	7.5	
	Visc @ 100°C	cSt	ASTM D445		12.6	9.7	
	<u> </u>						







Certificate L2367

Report Id: GFL408 [WUSCAR] 06194774 (Generated: 05/30/2024 18:28:41) Rev: 1

Laboratory Sample No.

: GFL0086991 Lab Number : 06194774 Unique Number : 11056897 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024 **Tested** 

: 30 May 2024 Diagnosed : 30 May 2024 - Wes Davis

GFL Environmental - 408 - Brown City

4235 M-53 BROWN CITY, MI US 48416

Contact: WILLIAM DEOLA

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

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

F: