WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

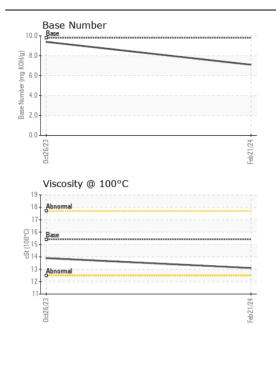


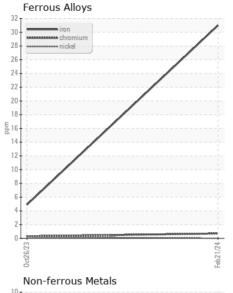
(BD05195) Machine Id 212025

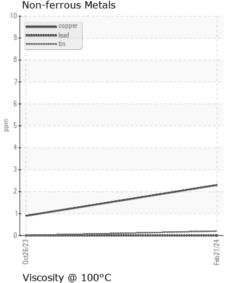
Component Diesel Engine

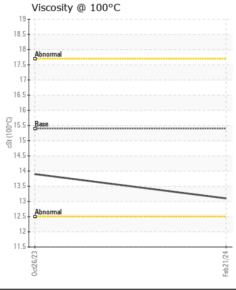
PETRO CANADA DURON SHP 15W40 (--- GAL)

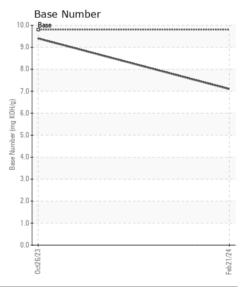
DECOMMENDATION.	_						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0092829	GFL0092775	
Thousand at the next control interval to memoria	Sample Date		Client Info		21 Feb 2024	26 Oct 2023	
	Machine Age	hrs	Client Info		3379	3379	
	Oil Age	hrs	Client Info		3379	3379	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>90	31	5	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	0	
	Silver	ppm	ASTM D5185m	>2	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	4	1	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	2	<1	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTANINATION			40TH DE (05	~	_	_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	2	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.1	
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	9.3 20.2	4.8 17.0	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	0	
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	0	6	7	
	Barium	ppm	ASTM D5185m		<1	4	
	Molybdenum	ppm	ASTM D5185m		65	61	
	Manganese	ppm	ASTM D5185m		1	0	
	Magnesium	ppm	ASTM D5185m		896	849	
	Calcium	ppm	ASTM D5185m		1052	1029	
	Phosphorus	ppm	ASTM D5185m		951	935	
	Zinc	ppm	ASTM D5185m		1131	1144	
	Sulfur	ppm	ASTM D5185m		2670	3181	
	Oxidation	Abs/.1mm	*ASTM D7414		17.1	13.0	
	Base Number (BN)				7.1	9.4	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.9	













Laboratory

Sample No.

: GFL0092829 Lab Number : 06099778 Unique Number: 10898008 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 : 27 Feb 2024 **Tested** 

Diagnosed

: 27 Feb 2024 - Wes Davis

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

US 48507 Contact: MARK WOMBLE mwomble@gflenv.com T: (586)825-9514

GFL Environmental - 455 - Flint

2051 W. Bristol Rd

Flint Township, MI

\* - 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)