WEAR CONTAMINATION FLUID CONDITION

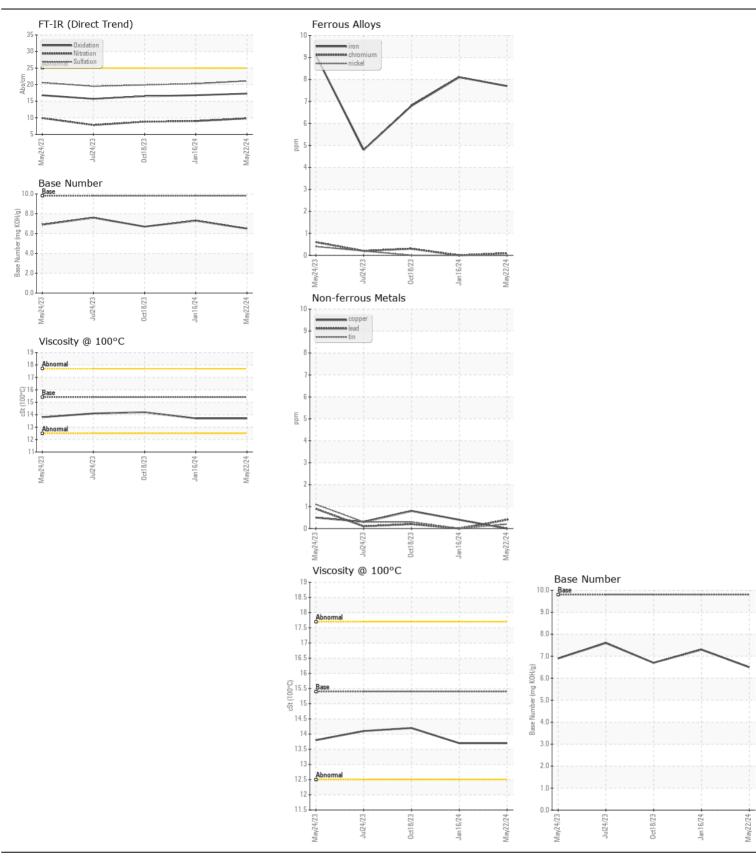
NORMAL NORMAL



Machine Id
429092
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

PETRO CANADA DURON SHP	15W40 (40 (QTS)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110775	GFL0092877	GFL0092855
	Sample Date		Client Info		22 May 2024	16 Jan 2024	18 Oct 2023
	Machine Age	hrs	Client Info		7524	6943	6521
	Oil Age	hrs	Client Info		581	422	586
	Filter Age	hrs	Client Info		581	422	586
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	8	8	7
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m		- <1	0	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-25	3	3	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	0	1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~1	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624		9.8	9.0	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.3	19.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION	Sodium	nnm	ACTM DE10E~		2	4	1
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	3 5	4	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0	0	0
		ppm	ASTM D5185m		60	58	61
	Molybdenum Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		1080	969	997
	Calcium	ppm	ASTM D5185m		1319	1154	1146
	Phosphorus	ppm	ASTM D5185m		1182	995	1060
	Zinc		ASTM D5185m		1477	1229	1322
	Sulfur	ppm	ASTM D5185m		3951	2988	3108
	Oxidation	ppm Abs/.1mm	*ASTM D3163111		17.3	16.8	16.5
	Base Number (BN)		ASTM D7414 ASTM D2896		6.5	7.3	6.7
	Visc @ 100°C	cSt	ASTM D2090		13.7	13.7	14.2
	V13C @ 100 C	001	AOTIVI D443	10.4	13.7	10.7	17.4







Certificate L2367

Laboratory Sample No.

: GFL0110775 Lab Number : 06193252 Unique Number : 11050004 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024

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

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802 Contact: Service Manager

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: