WEAR CONTAMINATION FLUID CONDITION

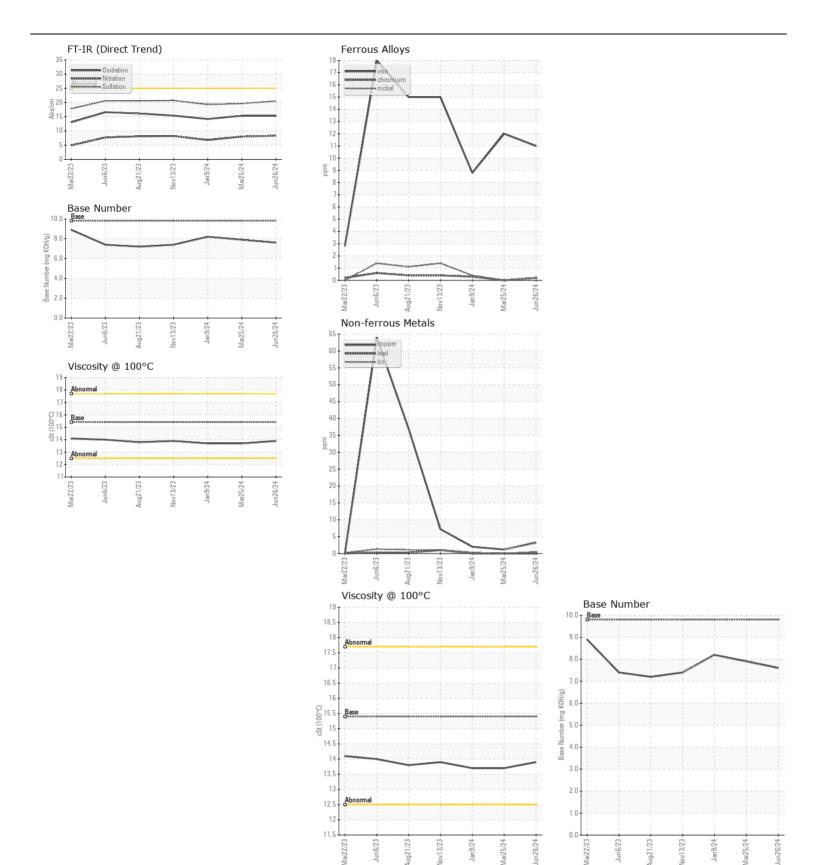
NORMAL NORMAL



Machine Id
812062
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (40 GAL)

PETRO CANADA DURON SHP	15W40 (40 (	GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110787	GFL0110746	GFL0092878
	Sample Date		Client Info		26 Jun 2024	25 Mar 2024	09 Jan 2024
	Machine Age	hrs	Client Info		4577	4015	3452
	Oil Age	hrs	Client Info		562	563	387
	Filter Age	hrs	Client Info		562	563	387
	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	11	12	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	<1
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	3	1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	3	3
	Potassium	ppm	ASTM D5185m	>20	<1	4	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.9	0.8	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.0	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.6	19.3
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	3
	Boron	ppm	ASTM D5185m	0	5	1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	58	60	61
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	953	1022	978
	Calcium	ppm	ASTM D5185m	1070	1069	1210	1115
	Phosphorus	ppm	ASTM D5185m	1150	987	1069	1034
	Zinc	ppm	ASTM D5185m	1270	1246	1272	1250
	Sulfur	ppm	ASTM D5185m	2060	3023	3451	2968
	Oxidation	Abs/.1mm	*ASTM D7414		15.3	15.3	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.9	8.2
	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.7







Certificate L2367

Report Id: GFL411 [WUSCAR] 06225595 (Generated: 07/03/2024 00:27:34) Rev: 1

Laboratory

Sample No.

: GFL0110787 Lab Number : 06225595 Unique Number : 11103792 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested** 

: 03 Jul 2024 Diagnosed

: 03 Jul 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: