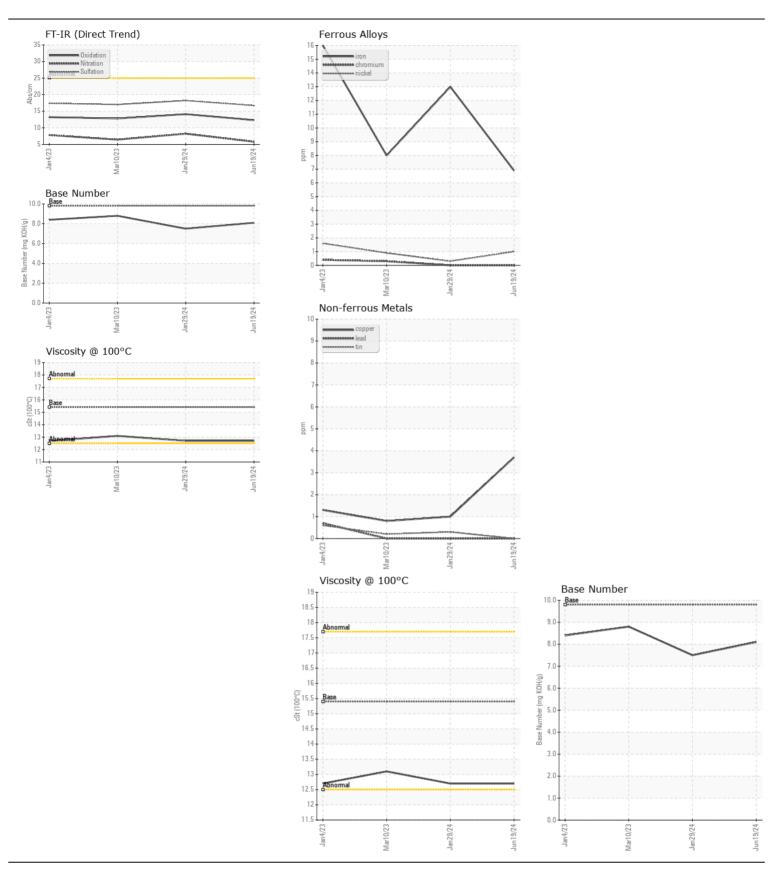


Machine Id 922034-22 Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0085514	GFL0044795	GFL0060403
Resample at the next service interval to monitor.	Sample Date		Client Info		19 Jun 2024	29 Jan 2024	10 Mar 2023
	Machine Age	hrs	Client Info		18626	18029	303153
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	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	7	13	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	<1
	Nickel	ppm	ASTM D5185m	>5	1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	4	1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<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	14	5	3
	Potassium	ppm	ASTM D5185m	>20	4	<1	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	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.2	6.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7	18.2	17.0
	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		23	6	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	0	7	<1	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	54	54	51
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	906	918	795
	Calcium	ppm	ASTM D5185m	1070	1025	1034	1018
	Phosphorus	ppm	ASTM D5185m	1150	1012	998	930
	Zinc	ppm	ASTM D5185m		1224	1198	1104
	Sulfur	ppm	ASTM D5185m	2060	3548	2952	2571
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	14.1	12.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.5	8.8
	Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.7	13.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06219440 Unique Number : 11097637

Test Package : FLEET

: GFL0085514

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 **Tested**

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 660S - Roanoke

2045 LEE HWY Cloverdale, VA US 24077

Contact: DELBERT BEASLEY

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: