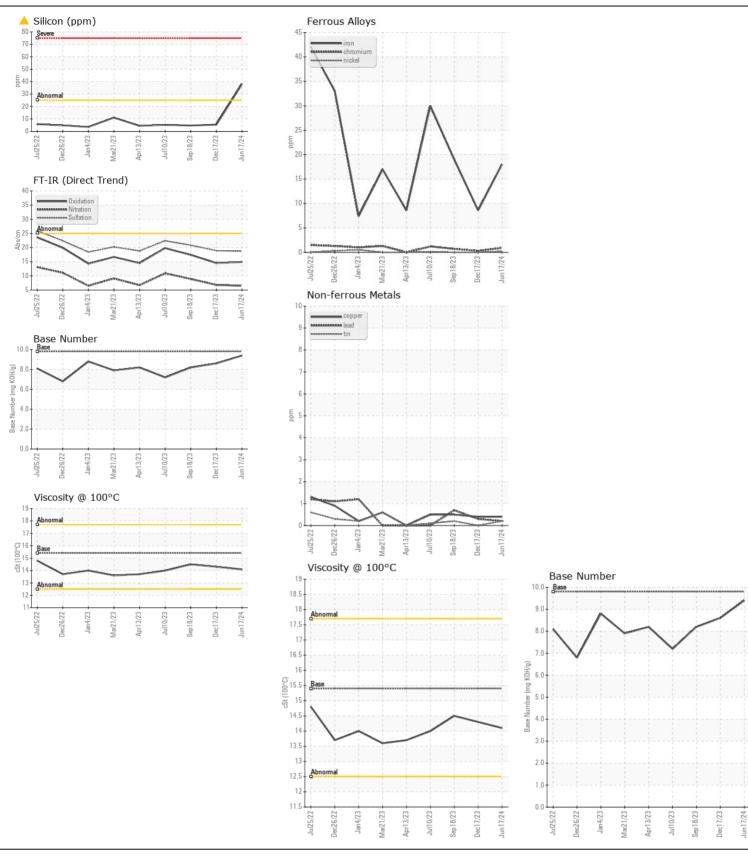


Machine Id 4572M Diesel Engine

PETRO CANADA DURON SHP	1344-0 (3 0	)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0124751	GFL0097735	GFL0087262
	Sample Date		Client Info		17 Jun 2024	17 Dec 2023	18 Sep 2023
	Machine Age	hrs	Client Info		3457	3004	2511
	Oil Age	hrs	Client Info		453	493	598
	Filter Age	hrs	Client Info		453	493	598
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	18	9	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	3
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>\25</b>	<b>▲</b> 38	5	5
	Potassium	ppm	ASTM D5185m		6	0	3
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.2	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.8	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	18.9	20.8
	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
EL LUD CONDITION	Cadima		ACTA DE10E		•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	2	6
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		5	3	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		60	56	63
	Manganese	ppm			<1	0	<1
	Magnesium	ppm	ASTM D5185m		1084	910	908
	Calcium	ppm	ASTM D5185m		1242	1058	1091
	Phosphorus	ppm	ASTM D5185m		1183	1066	1046
	Zinc	ppm	ASTM D5185m		1453	1257	1279
	Sulfur	ppm	ASTM D5185m		4310	3107	3296
	Oxidation	Abs/.1mm	*ASTM D7414		14.9	14.5	17.4
	Base Number (BN)				9.4	8.6	8.2
	Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	14.5







Certificate L2367

Laboratory Sample No.

: GFL0124751 Lab Number : 06224368 Unique Number : 11102565 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested** : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Jonathan Hester

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd

NORTHVILLE, MI US 48168 Contact: John Nahal

jnahal@gflenv.com T:

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)

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