WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL



Machine Id 427022-423 Component Diesel Engine

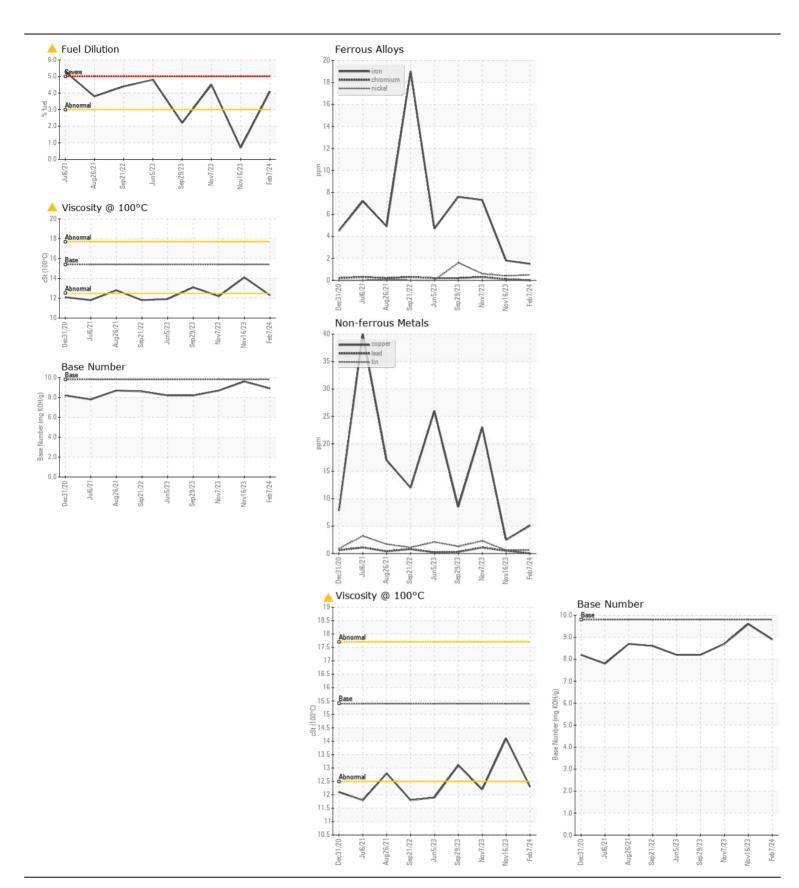
Fluid PETRO	CANADA DURON SHP	15W40 ( L	.TR)					
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number	00111	Client Info	Ellille / toll	GFL0103871	GFL0091819	
We recommend that you drain the oil	from the component if this has nd an early resample to monitor	Sample Date		Client Info		07 Feb 2024	16 Nov 2023	07 Nov 2023
•		Machine Age	hrs	Client Info		28967	28537	28528
this condition.		Oil Age	hrs	Client Info		0	0	0
		Filter Age	hrs	Client Info		0	0	0
		Oil Changed		Client Info		Not Changd	Changed	Changed
		Filter Changed		Client Info		Not Change	Changed	Changed
		Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAD			ACTM DE10Ess	100		0	7	
WEAR		Iron	ppm	ASTM D5185m		2	2	7
All component wear rates are normal		Chromium	ppm	ASTM D5185m		0	<1	<1
·		Nickel	ppm	ASTM D5185m		<1	<1	<1
		Titanium	ppm	ASTM D5185m		0	<1	<1
		Silver	ppm	ASTM D5185m		0	0 2	<1
		Aluminum	ppm	ASTM D5185m		2 0		1
		Lead	ppm	ASTM D5185m ASTM D5185m		5	<1 2	23
		Copper Tin	ppm	ASTM D5185m		ە <1	<1	2
		Vanadium	ppm	ASTM D5185m	>10	0	0	<1
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
				Visuai		·····	NONL	INOINL
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	3	4	6
· · · · · · · · · · · · · · · · · ·		Potassium	ppm	ASTM D5185m	>20	<1	2	2
There is a moderate amount of fuel presence of fuel in the oil.	resent in the oil. Lests confirm the	Fuel	%	ASTM D3524	>3.0	<b>4.1</b>	0.7	<b>▲</b> 4.5
presence of fuer in the oil.		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	*ASTM D7844	>4	0.1	0.1	0.2
		Nitration	Abs/cm	*ASTM D7624	>20	6.3	4.5	6.8
		Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	17.6	18.4
	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		1	0	0
TI DN NO POR NO		Boron	ppm	ASTM D5185m	0	4	4	2
The BN result indicates that there is suitable oil. Fuel is present in the oil and is lowering to longer serviceable due to the presence of co	,	Barium	ppm	ASTM D5185m	0	0	0	<1
		Molybdenum	ppm	ASTM D5185m	60	58	59	76
go. cocaa dad to the process		Manganese	ppm	ASTM D5185m	0	<1	<1	<1
		Magnesium	ppm	ASTM D5185m		932	950	1188
		Calcium	ppm	ASTM D5185m		1011	1090	1309
		Phosphorus	ppm	ASTM D5185m		1042	966	1341
		Zinc	ppm	ASTM D5185m		1268	1199	1546
		Sulfur	ppm	ASTM D5185m		3173	3404	3966
		Oxidation	Abs/.1mm	*ASTM D7414		13.9	13.3	14.7
		Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	9.6	8.7

14.1

12.3

ASTM D445 15.4

Visc @ 100°C cSt







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103871 Lab Number : 06088022

Unique Number : 10875467

Received **Tested** 

Diagnosed

: 13 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling 11800 Lewis Road

Chester, VA US 23831 Contact: Jimmy Mayes

jmayes@gflenv.com

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate L2367 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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F: