WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



MONTGOMERY Machine Id MACK 928112

Diesel Engine

PETRO CANADA DURON SHP	15W40 (L	TR)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0083572	GFL0115601	GFL0088647
	Sample Date		Client Info		12 Apr 2024	27 Mar 2024	27 Feb 2024
	Machine Age	hrs	Client Info		17168	14569	14440
	Oil Age	hrs	Client Info		3002	403	14440
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Not Changd
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR The aluminum level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	14	11	4
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<u>^</u> 26	17	11
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m	NONE	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	7	5	5
	Potassium	ppm	ASTM D5185m	>20	22	16	11
There is no indication of any contamination in the oil.	Fuel			>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		0.4	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	6.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.7	18.6	18.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NORML
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	0	11 3	8	4 5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m			0	0
oil. The condition of the oil is acceptable for the time in service.	Barium Molybdenum	ppm	ASTM D5185m		0 64	60	55
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		925	1045	887
	Calcium	ppm	ASTM D5185m		1121	1119	932
	Phosphorus	ppm	ASTM D5185m		1086	1086	950
	Zinc	ppm	ASTM D5185m		1259	1316	1206
	Sulfur	ppm	ASTM D5185m		2798	3635	2834
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	15.1	14.4
	Base Number (BN)	mg KOH/g			6.7	7.0	7.8

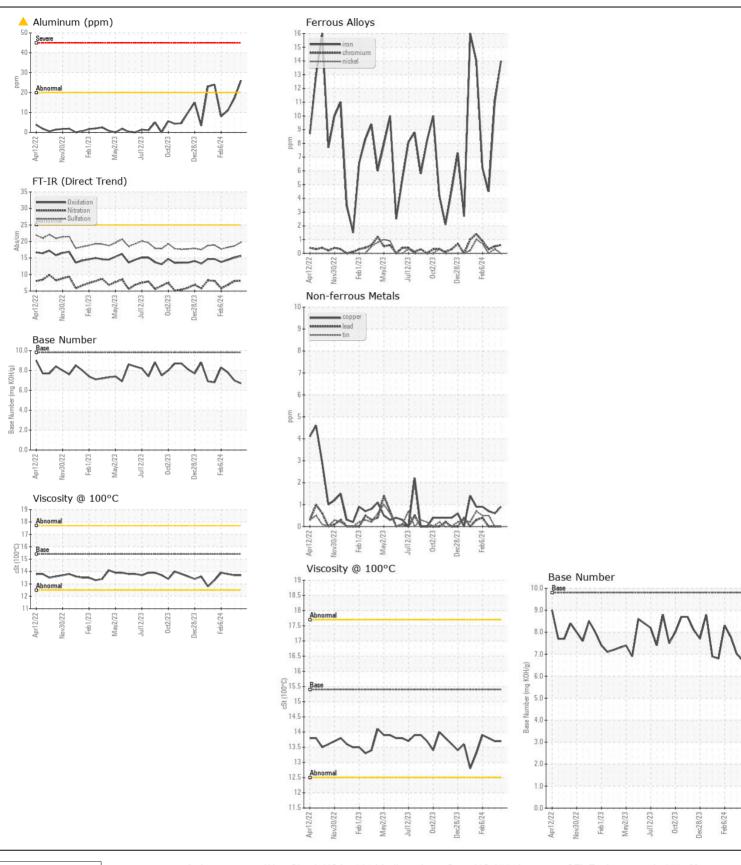
Visc @ 100°C cSt

13.7

13.7

ASTM D445 15.4

13.8







Certificate L2367

Laboratory Sample No.

: GFL0083572 Lab Number : 06151783 Unique Number : 10981861 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

: 19 Apr 2024 - Don Baldridge Diagnosed

GFL Environmental - 955 - Montgomery

1121 Wilbanks St Montgomery, AL US 36108

Contact: LISA REEVES

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: