

OIL ANALYSIS REPORT

Sample Rating Trend







MONTGOMERY Machine Id MACK 928112

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

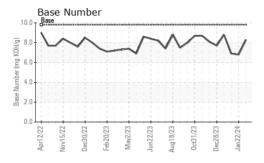
Fluid Condition

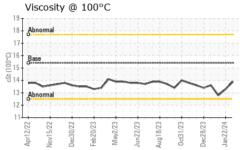
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0.4.4.0.5.4.4.5.5.4	, , , ,	72022 Nov202		23 Jun2023 Aug2023 Oct2023 Dec2		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088643	GFL0081864	GFL0081876
Sample Date		Client Info		06 Feb 2024	22 Jan 2024	17 Jan 2024
Machine Age	hrs	Client Info		17291	14166	14130
Oil Age	hrs	Client Info		3125	1234	1198
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	14	16
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>5	<1	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	<u>^</u> 24	△ 23
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	66	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1023	928	986
Calcium	ppm	ASTM D5185m	1070	1101	1021	1059
Phosphorus	ppm	ASTM D5185m	1150	1039	949	1026
Zinc	ppm	ASTM D5185m	1270	1320	1190	1249
Sulfur	ppm	ASTM D5185m	2060	3132	2965	2990
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	7
Sodium	ppm	ASTM D5185m		0	8	7
Potassium	ppm	ASTM D5185m	>20	10	19	18
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.9	18.8
Sullation	/\U3/.1111111					
FLUID DEGRAD		method	limit/base	current	history1	history2
FLUID DEGRAE	DATION				· ·	
		method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 13.8 8.3	history1 14.7 6.8	history2 14.7 6.9



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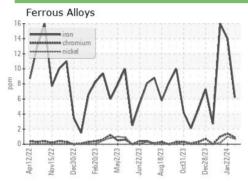


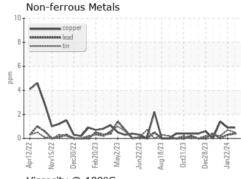


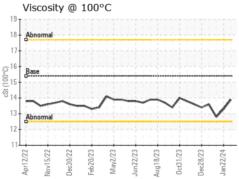
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

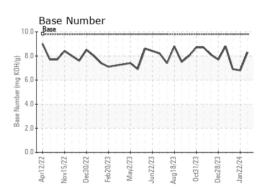
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.3	12.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06085244 Unique Number: 10872689 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088643 Received **Tested**

Diagnosed

: 12 Feb 2024 : 12 Feb 2024 - Wes Davis

: 09 Feb 2024

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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