

OIL ANALYSIS REPORT

Sample Rating Trend

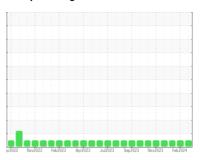




MONTGOMERY **MACK 420044**

Component
Diesel Engine

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

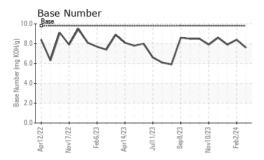
Fluid Condition

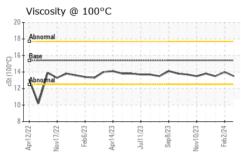
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		pr2022 Nov2	UZZ F80ZUZ3 APIZUZ3	Jul2023 Sep2023 Nov2023	Feb2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088656	GFL0088668	GFL0081894
Sample Date		Client Info		22 Feb 2024	02 Feb 2024	24 Jan 2024
Machine Age	hrs	Client Info		9005	8498	8884
Oil Age	hrs	Client Info		507	20	406
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ATION	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 META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	<1	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead		ASTM D5185m	>40	0	<1	0
	ppm		>330	1	1	<1
Copper Tin	ppm		>330		<1	<1
	ppm	ASTM D5185m ASTM D5185m	>15	<1		
Vanadium	ppm			0	0	0
Cadmium	ppm	ASTM D5185m				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	59	66
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	982	912	1035
Calcium	ppm	ASTM D5185m	1070	1090	987	1118
Phosphorus	ppm	ASTM D5185m	1150	979	1040	1055
Zinc	ppm	ASTM D5185m	1270	1250	1224	1306
Sulfur	ppm	ASTM D5185m	2060	2988	3075	3238
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	5
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	3	4	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.8	5.6	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.0	18.4
FLUID DEGR	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.9	14.3
Base Number (BN		ASTM D2896		7.6	8.4	7.9
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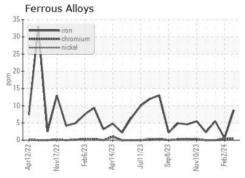


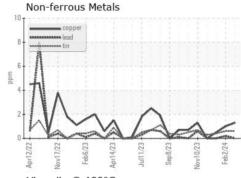


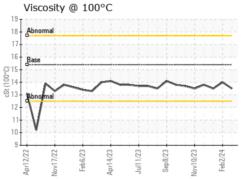
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

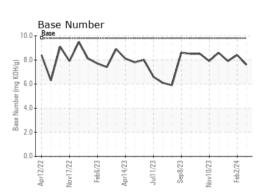
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.0	13.5

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06102830 Unique Number : 10901060 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088656 Received

Tested Diagnosed

: 29 Feb 2024 : 29 Feb 2024 - Wes Davis

: 28 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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