

OIL ANALYSIS REPORT

Sample Rating Trend





MONTGOMERY Machine Id MACK 420047

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

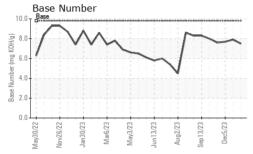
Fluid Condition

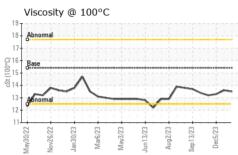
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ON SHP 15W40 (LTR)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088662	GFL0081863	GFL0091262
Sample Date		Client Info		13 Feb 2024	23 Jan 2024	05 Dec 2023
Machine Age	hrs	Client Info		1521	9996	9763
Oil Age	hrs	Client Info		1521	364	131
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	7	7	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	5	10
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	1
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	60
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	881	935	949
Calcium	ppm	ASTM D5185m	1070	994	1022	1049
Phosphorus	ppm	ASTM D5185m	1150	999	1013	970
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1155 3104	1196 3298	1214 2847
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	current 7	7	8
Sodium	ppm	ASTM D5185m	725	0	4	7
Potassium	ppm	ASTM D5185m	>20	6	4	18
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.9	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.5	19.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.6	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.9	7.7
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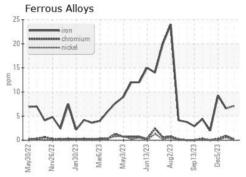


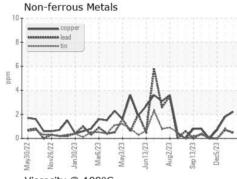


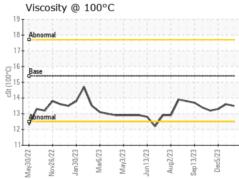
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

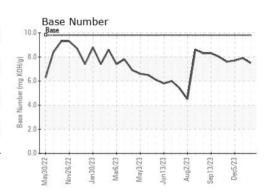
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06094030 Unique Number: 10886883 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088662 Received

: 20 Feb 2024 **Tested** Diagnosed

: 21 Feb 2024 : 21 Feb 2024 - Wes Davis

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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