

OIL ANALYSIS REPORT

Sample Rating Trend







MONTGOMERY Machine Id MACK 920016-192537

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

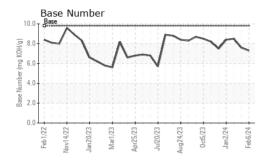
Fluid Condition

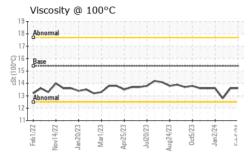
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM			limit/base	223 Jul2023 Aug2023 0e22023 J. Current		history2	
	MATION		imivoase		history1		
Sample Number		Client Info		GFL0088640	GFL0088667	GFL0081875	
Sample Date		Client Info		06 Feb 2024	02 Feb 2024	17 Jan 2024	
Machine Age	hrs	Client Info		11370	11322	11215	
Oil Age	hrs	Client Info		273	225	118	
Oil Changed		Client Info		Changed	N/A	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	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	17	11	12	
Chromium	ppm	ASTM D5185m	>20	1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	1	1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	2	
Lead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	3	2	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES	le le	method	limit/base	current	history1	history2	
Boron	nnm	ASTM D5185m	0	4	3	4	
Barium	ppm		0	0	0	0	
			60	66	60	62	
Monganasa	ppm	ASTM D5185m	0	<1	1	<1	
Manganese	ppm	ASTM D5185m					
Magnesium	ppm	ASTM D5185m	1010 1070	1016	909	996	
Calcium	ppm	ASTM D5185m		1129	993	1037	
Phosphorus	ppm	ASTM D5185m	1150	1077	1029	1060	
Zinc	ppm	ASTM D5185m	1270	1317	1233	1286	
Sulfur	ppm	ASTM D5185m	2060	3245	2985	3192	
CONTAMINAN		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	4	
Sodium	ppm	ASTM D5185m		0	4	3	
Potassium	ppm	ASTM D5185m	>20	2	4	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.9	0.9	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.7	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.9	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.0	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	7.6	8.5	



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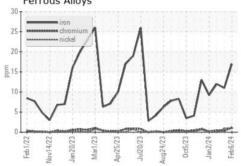


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

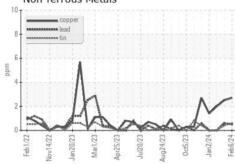
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	12.8

GRAPHS

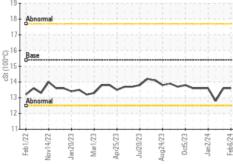
Ferrous Alloys

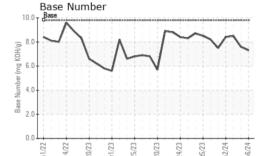
















Certificate L2367

Laboratory Sample No.

Lab Number : 06085245 Unique Number : 10872690 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088640 Received : 09 Feb 2024

Tested : 12 Feb 2024 Diagnosed

: 12 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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