

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

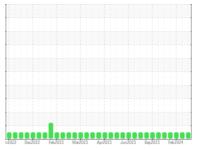


MONTGOMERY Machine Id MACK 925033-142560

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

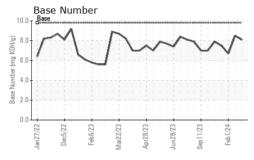
Fluid Condition

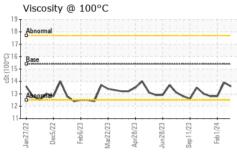
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFO	DRMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115577	GFL0088654	GFL0088665
Sample Date		Client Info		12 Mar 2024	22 Feb 2024	01 Feb 2024
Machine Age	hrs	Client Info		24519	24300	24243
Oil Age	hrs	Client Info		478	259	202
Oil Changed		Client Info		N/A	Not Changd	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	8	7	16
Chromium	ppm		>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum		ASTM D5185m	>20	4	3	9
	ppm					
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm		>330	1	<1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	1
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	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	61	59
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	925	974	879
Calcium	ppm	ASTM D5185m	1070	1065	1070	978
Phosphorus	ppm	ASTM D5185m	1150	1023	1010	960
Zinc	ppm	ASTM D5185m	1270	1242	1255	1171
Sulfur	ppm	ASTM D5185m	2060	3274	3237	2662
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	8	17
Sodium	ppm	ASTM D5185m		4	5	25
Potassium	ppm	ASTM D5185m	>20	3	3	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.7	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.0	20.4
FLUID DEGF	RADATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.8	15.8
Base Number (BI		ASTM D2896		8.1	8.5	6.7
Dasc Number (DI	ing Norry	AOTIVI DE030	0.0	0.1	0.0	0.7



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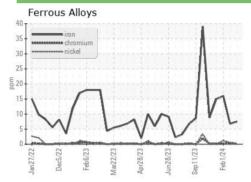


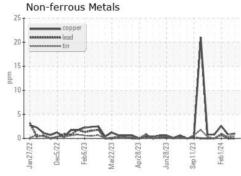


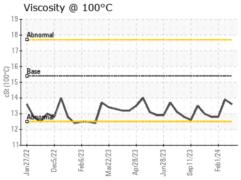
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

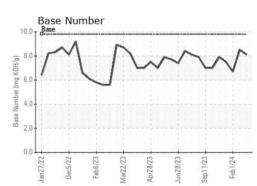
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.9	12.8	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06122205 Unique Number : 10936356 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115577 Received : 19 Mar 2024

Tested : 20 Mar 2024 Diagnosed : 20 Mar 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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