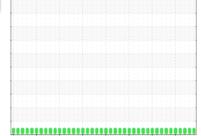


OIL ANALYSIS REPORT

\DT



Sample Rating Trend







MONTGOMERY Machine Io Machine Io

Diesel Engine

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

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

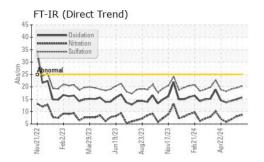
Fluid Condition

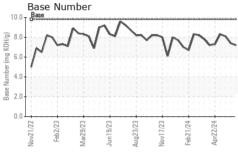
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

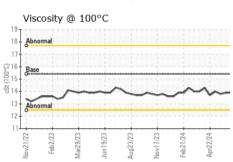
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127766	GFL0127239	GFL0088023
Sample Date		Client Info		03 Jul 2024	26 Jun 2024	23 May 2024
Machine Age	hrs	Client Info		5774	57299	5478
Oil Age	hrs	Client Info		5774	52253	432
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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	10	11	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm		>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium		ASTM D5185m	710	0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
	ppm		11			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	<1
Barium	ppm		0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	60	58	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	990	962	929
Calcium	ppm	ASTM D5185m	1070	1117	1058	1011
Phosphorus	ppm	ASTM D5185m	1150	1040	996	972
Zinc	ppm	ASTM D5185m	1270	1281	1291	1189
Sulfur	ppm	ASTM D5185m	2060	3282	3327	2990
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	6
				•	_	
Sodium	ppm	ASTM D5185m		5	4	4
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20			3
			>20 limit/base	5	4	
Potassium		ASTM D5185m		5 1	4 2	3
Potassium INFRA-RED	ppm	ASTM D5185m method	limit/base	5 1 current	4 2 history1	3 history2
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	5 1 current 0.7	4 2 history1 0.7	3 history2 0.4
Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >4 >20	5 1 current 0.7 8.7	4 2 history1 0.7 8.1	3 history2 0.4 6.9
Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >4 >20 >30	5 1 current 0.7 8.7 20.3	4 2 history1 0.7 8.1 19.6	3 history2 0.4 6.9 19.1



OIL ANALYSIS REPORT



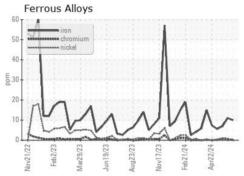


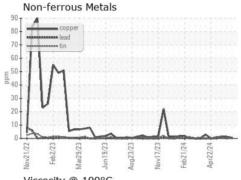


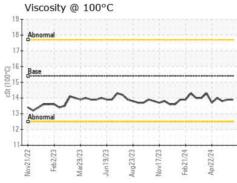
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

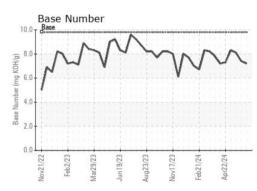
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.8

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0127766 Lab Number : 06231290 Unique Number : 11114783

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

Tested : 10 Jul 2024 Diagnosed : 10 Jul 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)

Report Id: GFL955 [WUSCAR] 06231290 (Generated: 07/10/2024 04:37:38) Rev: 1

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