

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id MACK 2620E Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

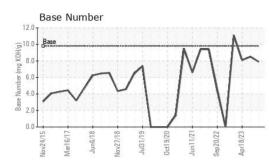


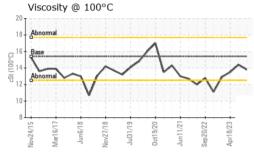


SAMPLE INFOR	MATION	method				history2
Sample Number		Client Info		GFL0087458	GFL0087529	GFL007179
Sample Date		Client Info		10 Oct 2023	03 Aug 2023	18 Apr 2023
Machine Age	hrs	Client Info		33261	33088	32767
Oil Age	hrs	Client Info		669	496	175
Oil Changed		Client Info		Changed	Not Changd	Not Chango
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	66	63	28
Chromium	ppm	ASTM D5185m	>20	2	3	2
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>330	3	4	3
Tin	ppm	ASTM D5185m	>15	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	9	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	56	15
Manganese	ppm	ASTM D5185m	0	<1	1	2
Magnesium	ppm	ASTM D5185m	1010	871	888	172
Calcium	ppm	ASTM D5185m	1070	1164	1211	1868
Phosphorus	ppm	ASTM D5185m	1150	963	1015	794
Zinc	ppm	ASTM D5185m	1270	1191	1255	985
Sulfur		I OTH DEVOE			0 = 0 =	3505
Canal	ppm	ASTM D5185m	2060	2926	3705	0000
CONTAMINAN		ASTM D5185m method	2060 limit/base	2926 current	3705 history1	
CONTAMINAN				current 4		
CONTAMINAN	ITS	method	limit/base	current	history1	history2 8 3
CONTAMINAN	ITS ppm	method ASTM D5185m	limit/base >25	current 4	history1 4	history2 8
CONTAMINAN Silicon Sodium	ITS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25	current 4 2	history1 4 4	history2 8 3 2
CONTAMINAN Silicon Sodium Potassium	ITS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 4 2 <1	history1 4 4 <1	history2 8 3 2
CONTAMINAN Silicon Sodium Potassium INFRA-RED	ITS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >4	current 4 2 <1 current	history1 4 4 <1 history1	history2 8 3 2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ITS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4	current 4 2 <1 current 2.8	history1 4 4 <1 history1 3	history2 8 3 2 history2 1.2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	Ppm ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >4 >20	current 4 2 <1 current 2.8 8.0	history1 4 4 <1 history1 3 8.1	history2 8 3 2 history2 1.2 5.9 17.8
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	Ppm ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >4 >20 >30	current 4 2 <1 current 2.8 8.0 21.7	history1 4 4 <1	history2 8 3 2 history2 1.2 5.9

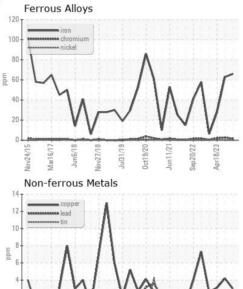


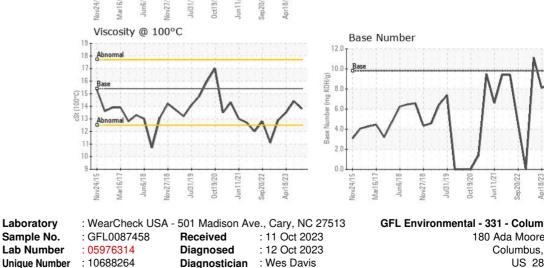
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.4	13.5
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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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