

OIL ANALYSIS REPORT

Sample Rating Trend



Area MONTGOMERY MACK 420043

Diesel Engine

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

SAMPLE INFORI		method				history2
		Client Info		GFL0118448	GFL0115600	GFL0088639
Sample Number		Client Info				
Sample Date Machine Age	bro	Client Info		18 Apr 2024	27 Mar 2024 9157	19 Feb 2024
0	hrs			1920		1529 1529
Oil Age	hrs	Client Info		1920 Not Changed	9157 Not Changed	
Oil Changed		Client Info		Not Changd	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
ron	ppm	ASTM D5185m	>120	10	3	5
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	1
_ead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	5	<1	9
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	3
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	60	58	59	54
Vanganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	897	1053	818
Calcium	ppm	ASTM D5185m	1070	1031	1135	968
Phosphorus	ppm	ASTM D5185m	1150	882	1101	961
Zinc	ppm	ASTM D5185m	1270	1108	1333	1065
Sulfur	ppm	ASTM D5185m	2060	2879	3852	3076
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	2	5
Sodium	ppm	ASTM D5185m		4	1	0
Potassium	ppm	ASTM D5185m	>20	1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.5	5.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	17.7	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.1	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	8.5	7.8



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

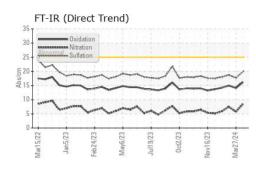
Fluid Condition

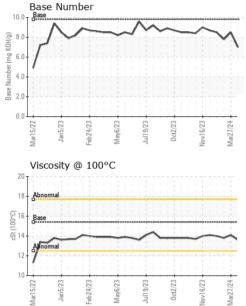
Wear

oil.



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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	13.6	14.1	13.8
GRAPHS						

Ferrous Alloys

