

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Water

Glycol

PQ

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Bervllium

Chromium

Titanium

Aluminum

ppm

ppm

ppm

ppm

ppm

ppm

Area Cranes Crane - Fwd Engine Crank Case (S/N Sample Tag MA-04003-S10)

Forward Diesel Engine

PETRO CANADA DURON HP 15W40 (42 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

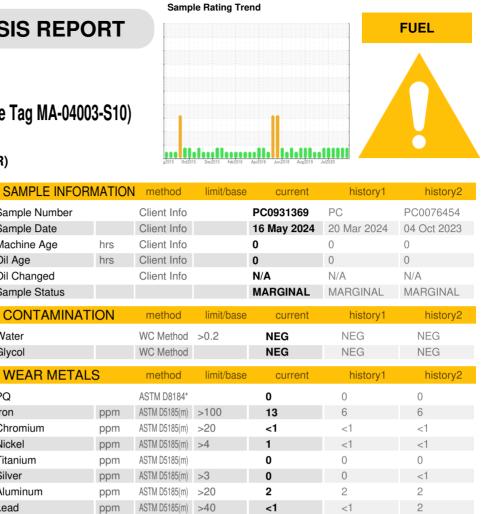
All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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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Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	63	63	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	976	979	929
Calcium	ppm	ASTM D5185(m)	1070	1033	1028	1007
Phosphorus	ppm	ASTM D5185(m)	1150	988	997	953
Zinc	ppm	ASTM D5185(m)	1270	1180	1193	1157
Sulfur	ppm	ASTM D5185(m)	2060	2443	2475	2393
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2

>40

>330

>15

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

<1

<1

0

0

0

0

<1

<1

0

0

0

0

1

0

0

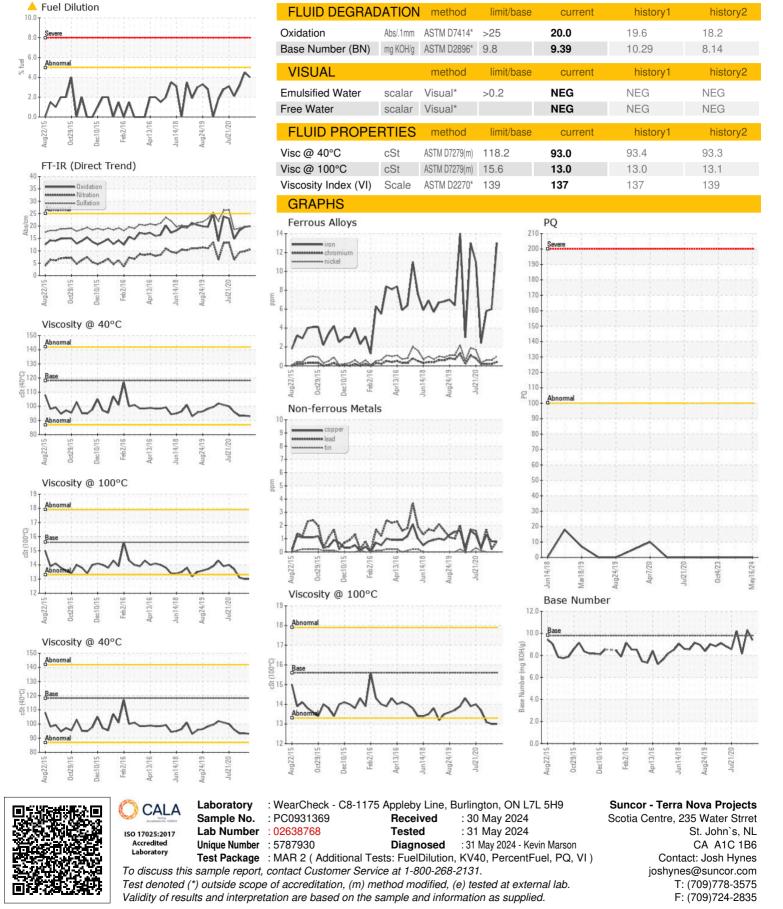
0

0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	1	1	2
Sodium	ppm	ASTM D5185(m)		7	2	2
Potassium	ppm	ASTM D5185(m)	>20	3	<1	0
Fuel	%	ASTM D7593*	>5	<u> </u>	4 .5	3 .1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.5	9.8	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.5	19.1



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