



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
31117 PORT S.S. ENGINE (S/N 47B4885)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (55 LTR)

RECOMMENDATION

We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

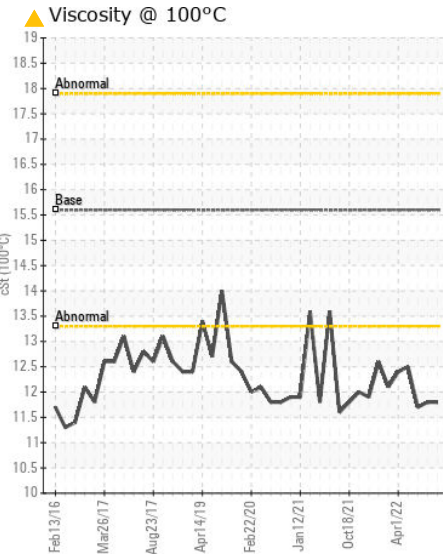
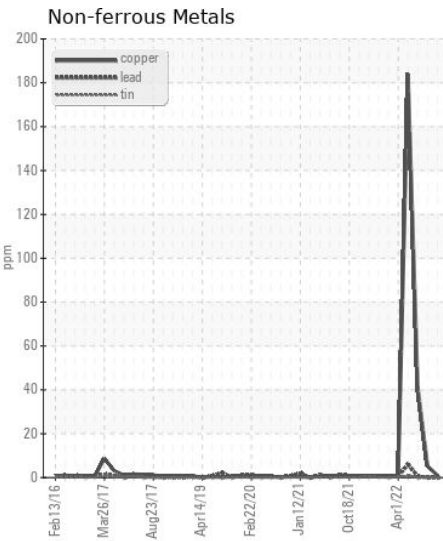
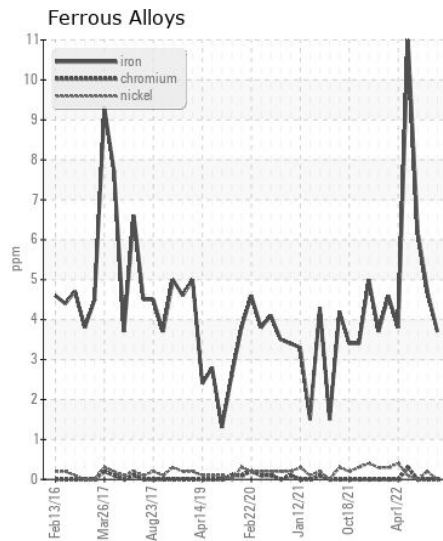
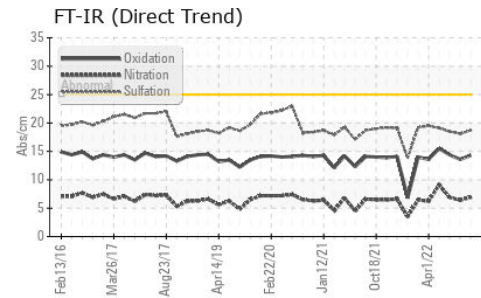
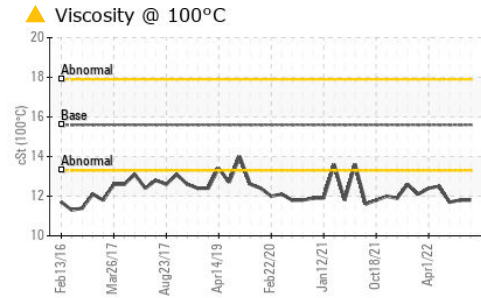
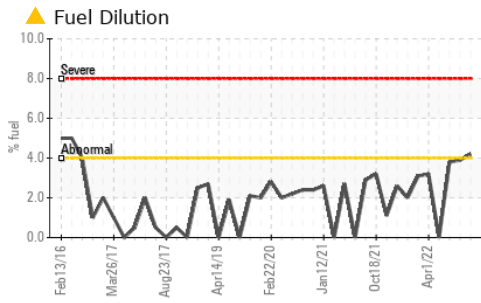
CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0905540	WC0867275	WC0905534
Sample Date		Client Info		14 May 2024	16 Apr 2024	13 Mar 2024
Machine Age	hrs	Client Info		35571	0	0
Oil Age	hrs	Client Info		536	500	500
Filter Age	hrs	Client Info		536	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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Iron	ppm	ASTM D5185(m)	>80	4	5	6
Chromium	ppm	ASTM D5185(m)	>6	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>95	0	0	<1
Copper	ppm	ASTM D5185(m)	>85	1	5	41
Tin	ppm	ASTM D5185(m)	>9	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185(m)	>25	1	6	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>4.0	▲ 4.2	▲ 3.9	▲ 3.8
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.4	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	18.1	18.5
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*	>0.1	NEG	NEG	NEG
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Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	0	3	5	9
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	46	33	32
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	816	628	599
Calcium	ppm	ASTM D5185(m)	1070	1159	1345	1439
Phosphorus	ppm	ASTM D5185(m)	1150	929	888	894
Zinc	ppm	ASTM D5185(m)	1270	1131	1068	1107
Sulfur	ppm	ASTM D5185(m)	2060	2475	2460	2575
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	13.6	14.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 11.8	▲ 11.8	▲ 11.7



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0905540
Lab Number : 02640680
Unique Number : 5789842
Test Package : MAR 1 (Additional Tests: FuelDilution, PercentFuel)

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*To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.*