



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	ABNORMAL
OIL CONDITION	NORMAL

Machine Id
AUXILLARY #1
 Component
Auxiliary Engine
 Fluid
PETRO CANADA DURON SAE 15W40 (68 LTR)

RECOMMENDATION

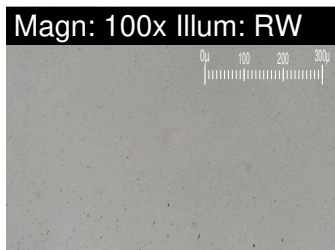
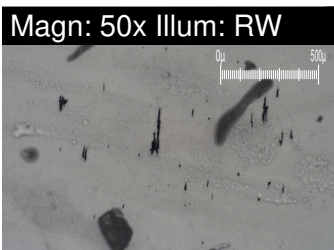
We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895919	WC0122044	---
Sample Date		Client Info		25 Jun 2024	15 Jun 2003	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>35	7	6	---
Chromium	ppm	ASTM D5185(m)	>4	0	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	1	1	---
Lead	ppm	ASTM D5185(m)	>7	4	<1	---
Copper	ppm	ASTM D5185(m)	>65	11	7	---
Tin	ppm	ASTM D5185(m)	>4	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
Large Particles		DR-Ferr*		6.9	---	---
Small Particles		DR-Ferr*		5.7	---	---
Total Particles		DR-Ferr*	>---	12.6	---	---
Large Particles Percentage	%	DR-Ferr*		9.5	---	---
Severity Index		DR-Ferr*		8	---	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*		3		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				



CONTAMINANTS

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

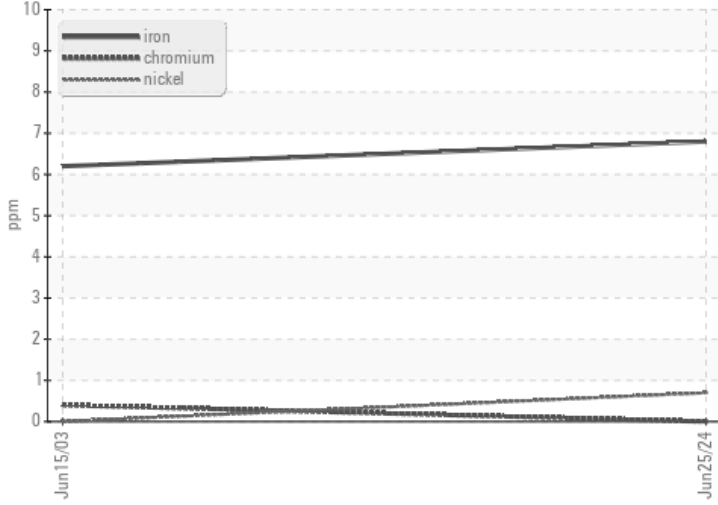
Silicon	ppm	ASTM D5185(m)	>20	1	4	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Fuel	%	ASTM D7593*	>4.0	▲ 4	1.5	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.3	6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1		

OIL CONDITION

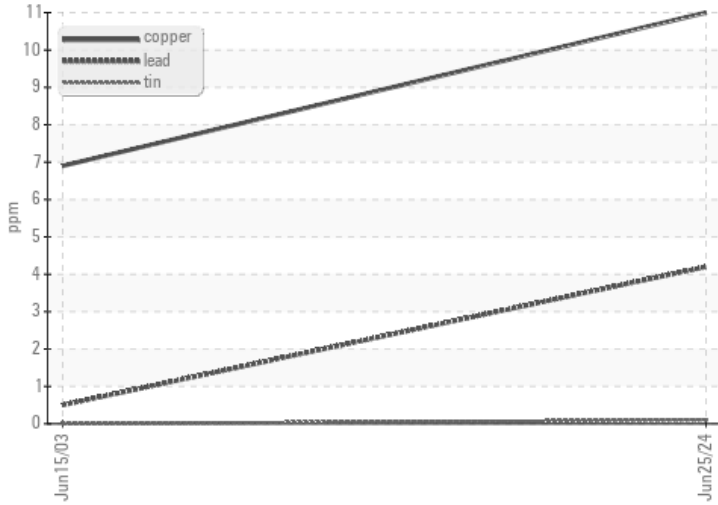
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		4	2	---
Boron	ppm	ASTM D5185(m)	1	1	3	---
Barium	ppm	ASTM D5185(m)	1	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	60	59	<1	---
Manganese	ppm	ASTM D5185(m)	1	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	962	9	---
Calcium	ppm	ASTM D5185(m)	1070	1066	2658	---
Phosphorus	ppm	ASTM D5185(m)	1150	940	947	---
Zinc	ppm	ASTM D5185(m)	1270	1190	1202	---
Sulfur	ppm	ASTM D5185(m)	2060	2453	3252	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	13	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.60	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.7	▲ 11.4	---
Lubricant Degradation	Scale 0-10	ASTM D7684*				

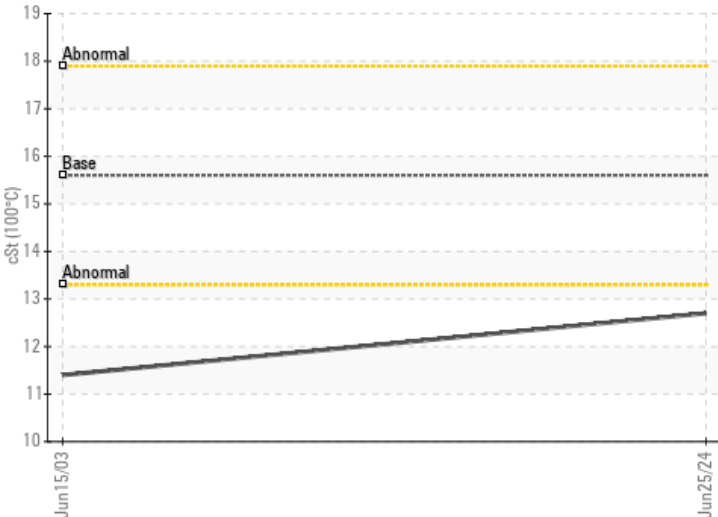
Ferrous Alloys



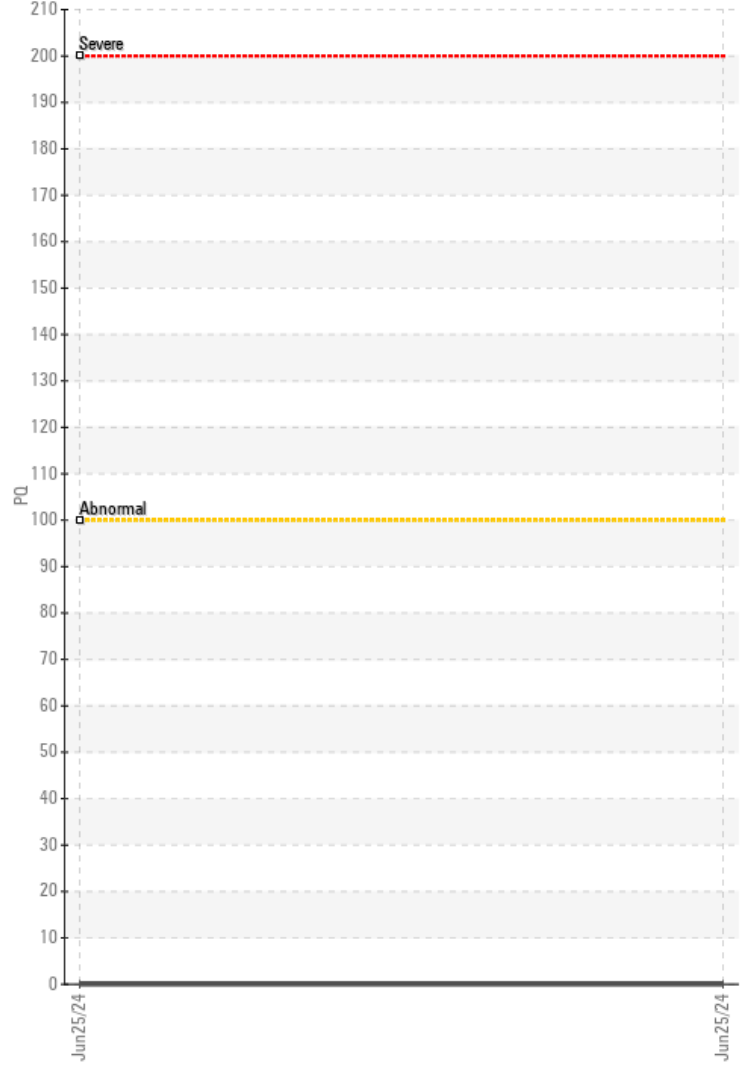
Non-ferrous Metals



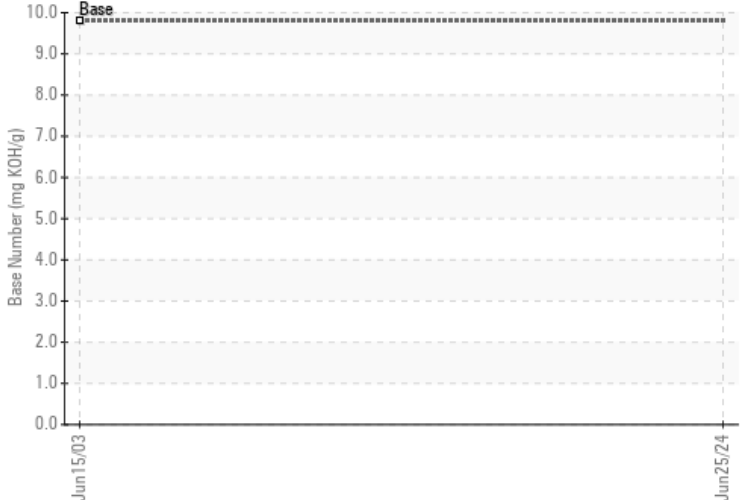
Viscosity @ 100°C



PQ



Base Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895919
Lab Number : 02645116
Unique Number : 5802655
Test Package : MAR 3 (Additional Tests: FuelDilution, PercentFuel)

CANSHIP UGLAND LTD - M/V PLACENTIA PRIDE
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 MOUNT PEARL, NL
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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.

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