



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LD5000

Component
New (Unused) Oil

Fluid
PETRO CANADA SENTRON LD 5000 (--- GAL)

RECOMMENDATION

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02618342	---	---
Sample Date		Client Info		26 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

{not applicable}

Iron	ppm	ASTM D5185(m)		<1	---	---
Chromium	ppm	ASTM D5185(m)		0	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		2	---	---
Lead	ppm	ASTM D5185(m)		0	---	---
Copper	ppm	ASTM D5185(m)		0	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

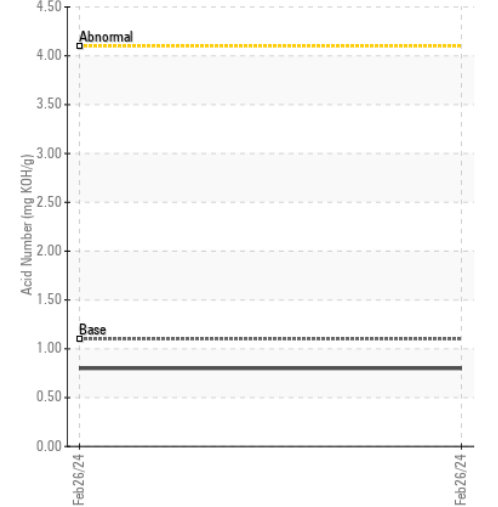
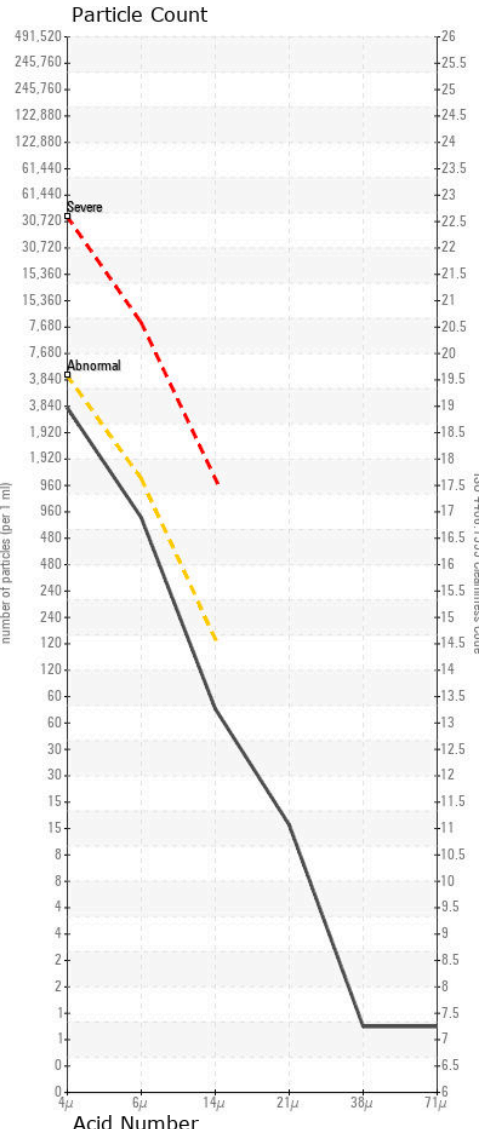
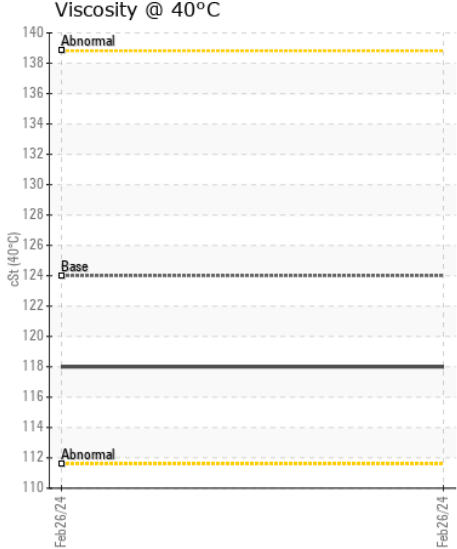
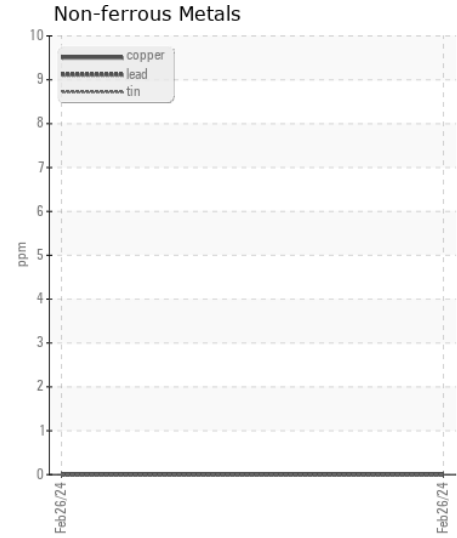
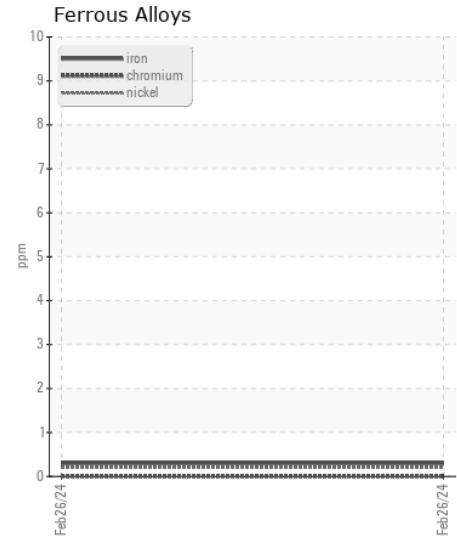
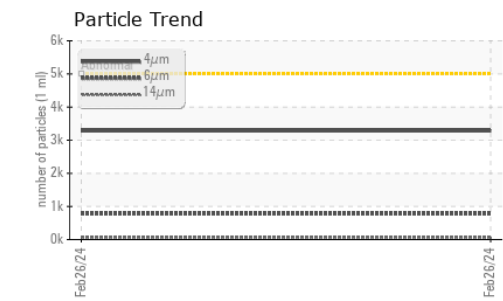
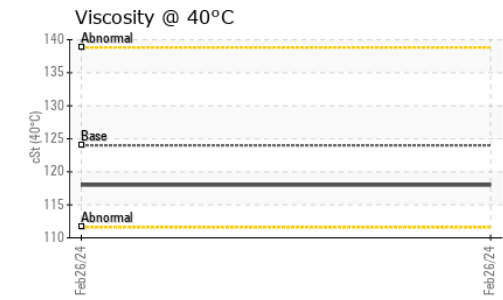
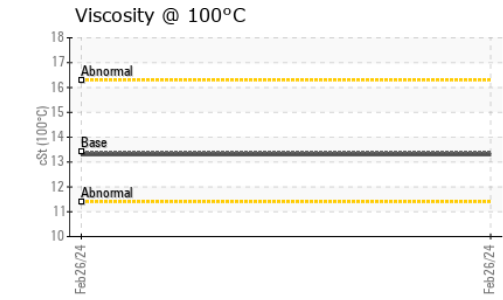
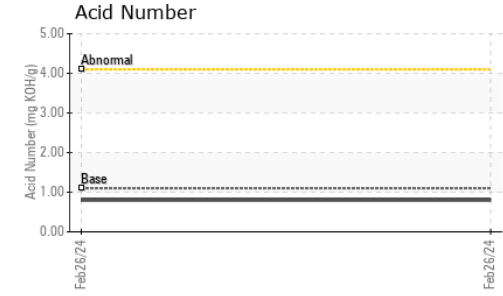
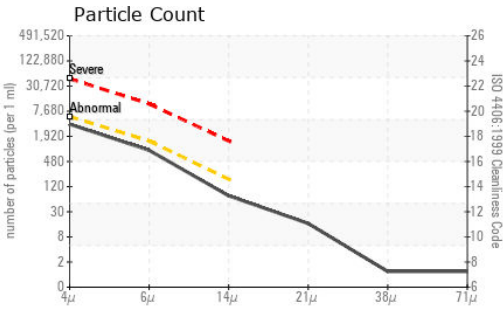
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

Silicon	ppm	ASTM D5185(m)		5	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		2.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*		15.0	---	---
Particles >4µm		ASTM D7647	>5000	3283	---	---
Particles >6µm		ASTM D7647	>1300	780	---	---
Particles >14µm		ASTM D7647	>160	64	---	---
Particles >21µm		ASTM D7647	>40	14	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		NEG	---	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

Sodium	ppm	ASTM D5185(m)		<1	---	---
Boron	ppm	ASTM D5185(m)	2	1	---	---
Barium	ppm	ASTM D5185(m)	3	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	---	---
Manganese	ppm	ASTM D5185(m)	0	0	---	---
Magnesium	ppm	ASTM D5185(m)	4	19	---	---
Calcium	ppm	ASTM D5185(m)	1727	1760	---	---
Phosphorus	ppm	ASTM D5185(m)	272	290	---	---
Zinc	ppm	ASTM D5185(m)	333	340	---	---
Sulfur	ppm	ASTM D5185(m)	3415	2860	---	---
Oxidation	Abs/.1mm	ASTM D7414*		8.6	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	0.80	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	124.0	118	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	13.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	104	108	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **HARTLAND COLONY (HLAND FARMING)**
Sample No. : TR02618342 **Received** : 27 Feb 2024 **RR #1**
Lab Number : 02618342 **Tested** : 29 Feb 2024 **BASHAW, AB**
Unique Number : 5735452 **Diagnosed** : 29 Feb 2024 - Kevin Marson **CA T0B 0H0**
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN MANCO) **Contact: DAVID WALDNER**

To discuss this sample report, contact Customer Service at 1-800-827-0711.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **T: (403)588-9240**
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **F: (780)372-3685**