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.

WEAR

{not applicable}

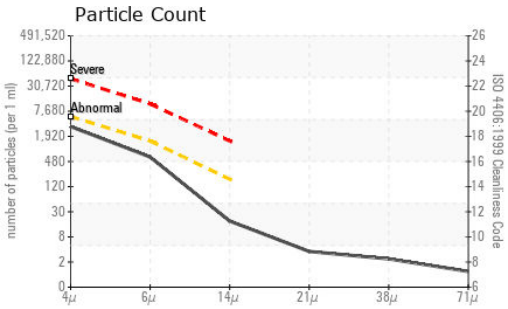
CONTAMINATION

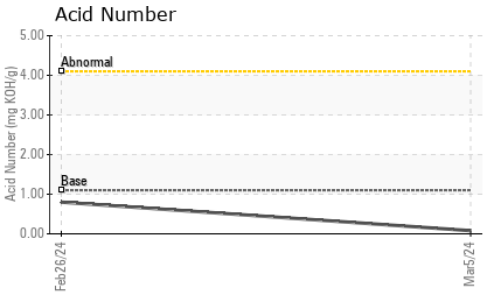
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

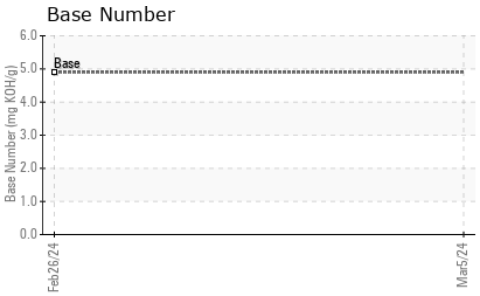
FLUID CONDITION

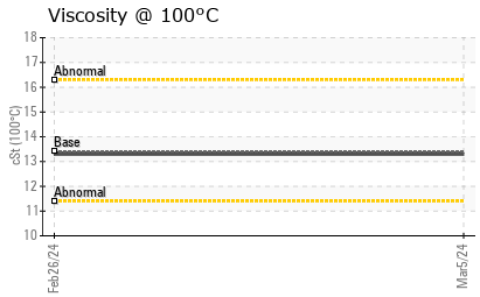
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

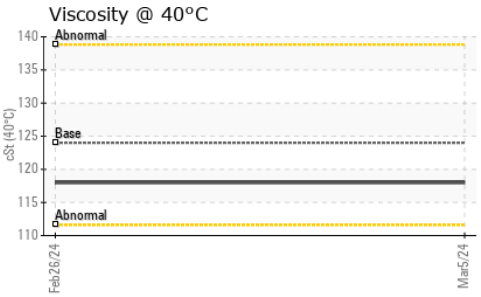
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02620189	TR02618342	---
Sample Date		Client Info		05 Mar 2024	26 Feb 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)		<1	<1	---
Chromium	ppm	ASTM D5185(m)		0	0	---
Nickel	ppm	ASTM D5185(m)		0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)		2	2	---
Lead	ppm	ASTM D5185(m)		<1	0	---
Copper	ppm	ASTM D5185(m)		0	0	---
Tin	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)		5	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Water		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*		2.6	2.6	---
Sulfation	Abs/.1mm	ASTM D7415*		15.0	15.0	---
Particles >4µm		ASTM D7647	>5000	2880	3283	---
Particles >6µm		ASTM D7647	>1300	539	780	---
Particles >14µm		ASTM D7647	>160	16	64	---
Particles >21µm		ASTM D7647	>40	3	14	---
Particles >38µm		ASTM D7647	>10	2	1	---
Particles >71µm		ASTM D7647	>3	1	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/11	19/17/13	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*		NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Boron	ppm	ASTM D5185(m)	2	1	1	---
Barium	ppm	ASTM D5185(m)	3	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	4	19	19	---
Calcium	ppm	ASTM D5185(m)	1727	1740	1760	---
Phosphorus	ppm	ASTM D5185(m)	272	280	290	---
Zinc	ppm	ASTM D5185(m)	333	330	340	---
Sulfur	ppm	ASTM D5185(m)	3415	2830	2860	---
Oxidation	Abs/.1mm	ASTM D7414*		8.5	8.6	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	0.08	0.80	---
Base Number (BN)	mg KOH/g	ASTM D2896*	4.9	5.01	---	---
i-pH	Scale 0-14	ASTM D7946*		5.18	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	124.0	118	118	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.4	13.3	13.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	104	108	108	---

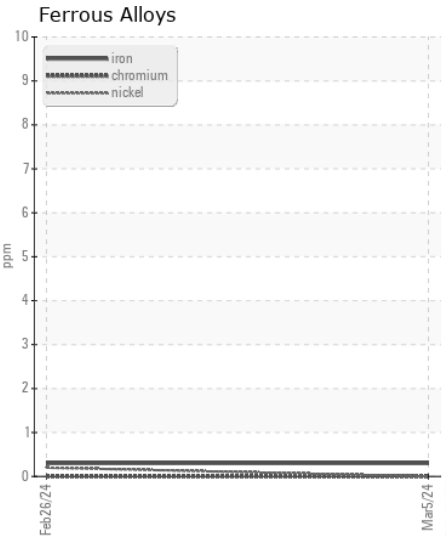


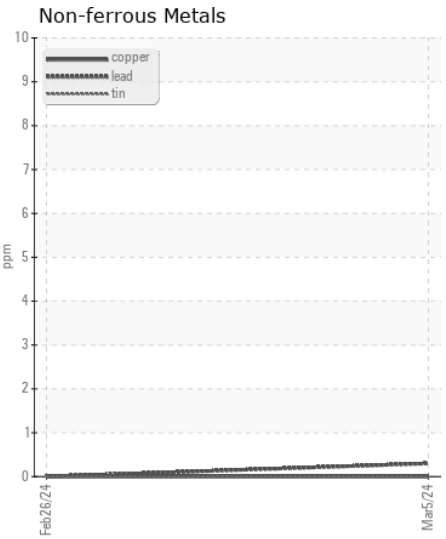


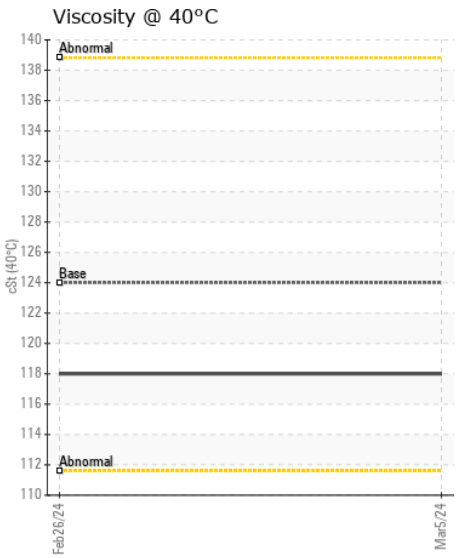


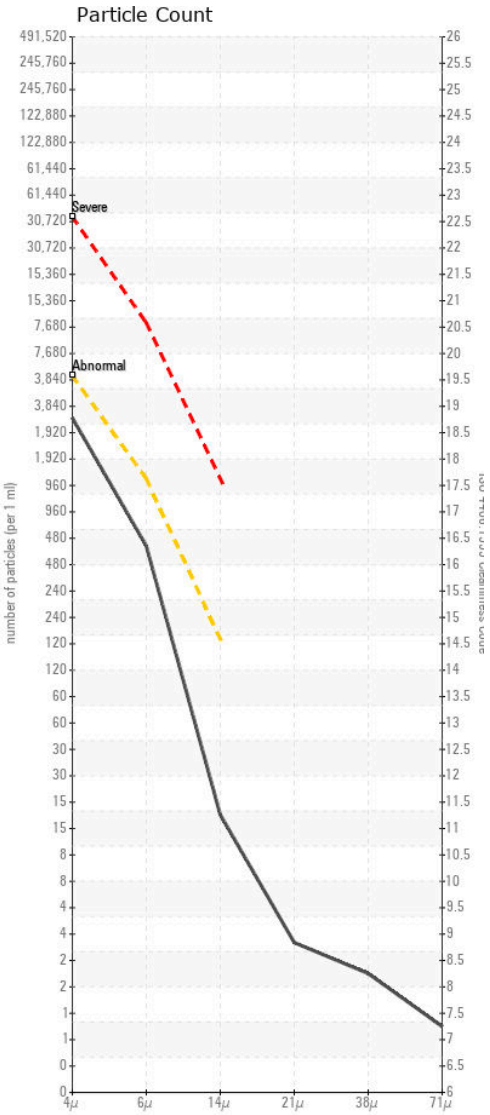


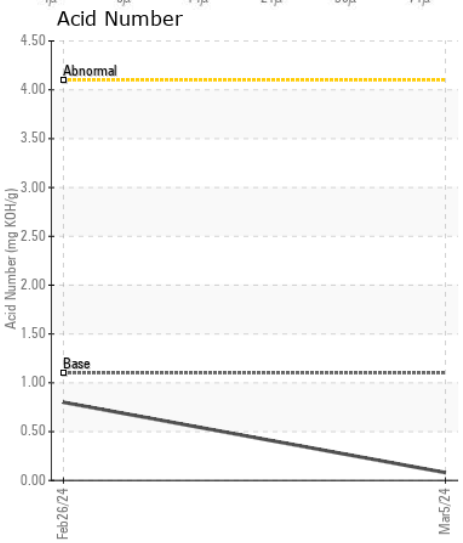












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR02620189
Lab Number : 02620189
Unique Number : 5737299
Test Package : MOB 2 (Additional Tests: FT-IR, i-pH, ICP-NewOil, KV100, PrtCount, TBN(wh)

Received : 06 Mar 2024
Tested : 08 Mar 2024
Diagnosed : 08 Mar 2024 - Kevin Marson

HARTLAND COLONY (HLAND FARMING)
RR #1
BASHAW, AB
CA T0B 0H0
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.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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