IND II LUBE 360™ OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
17P111
Component
Unknown Component
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample. Please provide more complete information on your next sample.

WEAR

Component wear rates appear to be normal (unconfirmed).

CONTAMINATION

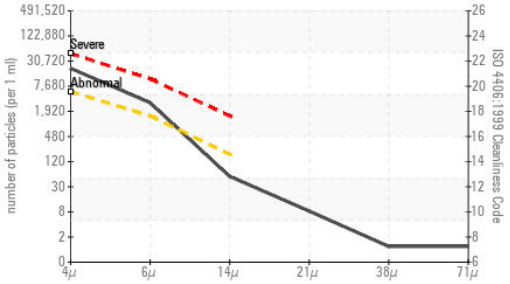
There is a moderate amount of silt (particulates < 14 microns in size) present in the sample.

FLUID CONDITION

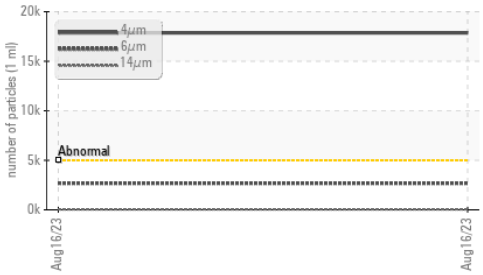
The AN level is acceptable for this fluid. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC	---	---
Sample Date		Client Info		16 Aug 2023	---	---
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				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)		1	---	---
Chromium	ppm	ASTM D5185(m)		0	---	---
Nickel	ppm	ASTM D5185(m)		0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		0	---	---
Lead	ppm	ASTM D5185(m)		<1	---	---
Copper	ppm	ASTM D5185(m)		27	---	---
Tin	ppm	ASTM D5185(m)		<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)		0	---	---
Potassium	ppm	ASTM D5185(m)	>20	0	---	---
Water		WC Method		NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 17857	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2681	---	---
Particles >14µm		ASTM D7647	>160	47	---	---
Particles >21µm		ASTM D7647	>40	7	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/13	---	---
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	---	---
Sodium	ppm	ASTM D5185(m)		0	---	---
Boron	ppm	ASTM D5185(m)		0	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		0	---	---
Calcium	ppm	ASTM D5185(m)		<1	---	---
Phosphorus	ppm	ASTM D5185(m)		<1	---	---
Zinc	ppm	ASTM D5185(m)		2	---	---
Sulfur	ppm	ASTM D5185(m)		676	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.07	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		67.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		8.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		106	---	---

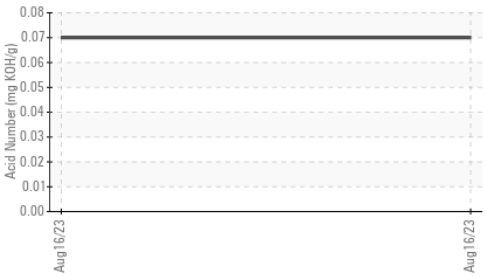
Particle Count



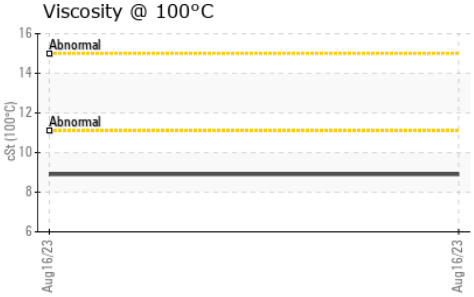
Particle Trend



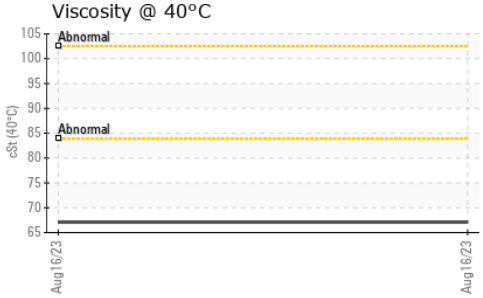
Acid Number



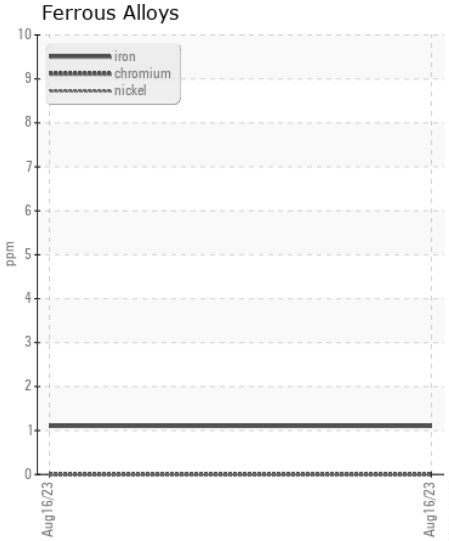
Viscosity @ 100°C



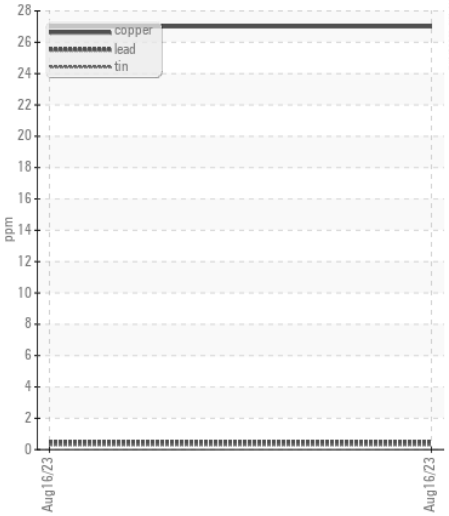
Viscosity @ 40°C



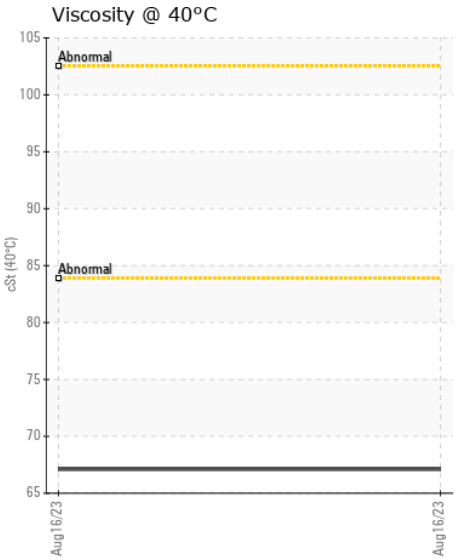
Ferrous Alloys



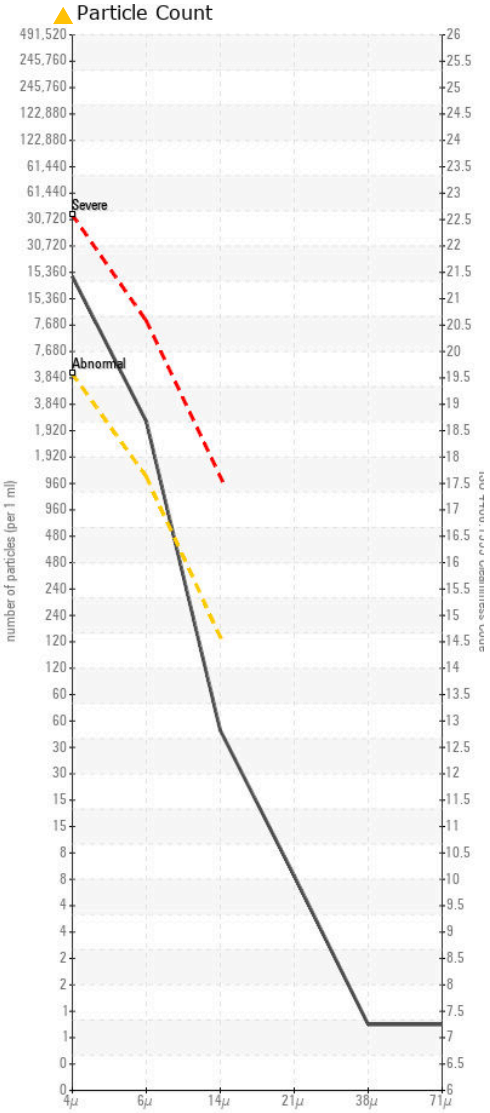
Non-ferrous Metals



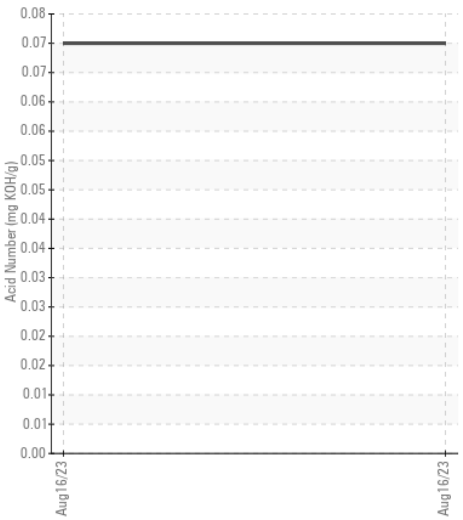
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02576768
Unique Number : 5629828
Test Package : IND 2 (Additional Tests: KV100, VI)

Received : 18 Aug 2023
Tested : 22 Aug 2023
Diagnosed : 22 Aug 2023 - Kevin Marson

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.

Petro Canada Lubricants Inc.
385 Southdown Road
Mississauga, ON
CA L5J 2Y3
Contact: John Happy
john.happy@HFSinclair.com
T:
F: (905)822-6025