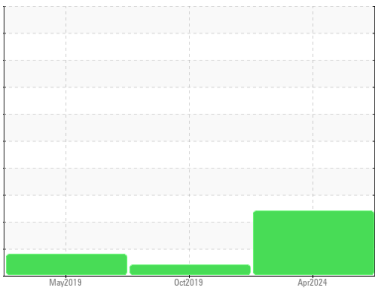
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
TEREX 3307 D15
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
The iron level is abnormal. All other component wear rates are normal.

Contamination
There is a moderate amount of particulates present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0123785**	PCA0007233	PCA0003901
Sample Date		Client Info		**14 Apr 2024**	10 Oct 2019	20 May 2019
Machine Age	hrs	Client Info		**13020**	1238	0
Oil Age	hrs	Client Info		**0**	1238	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **34**	2	2
Chromium	ppm	ASTM D5185m	>10	**5**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**4**	<1	<1
Lead	ppm	ASTM D5185m	>10	**<1**	0	1
Copper	ppm	ASTM D5185m	>75	**2**	2	3
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	3	1
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**7**	33	14
Manganese	ppm	ASTM D5185m	0	**1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**123**	526	215
Calcium	ppm	ASTM D5185m	50	**333**	1486	1833
Phosphorus	ppm	ASTM D5185m	330	**465**	944	913
Zinc	ppm	ASTM D5185m	430	**557**	1134	1123
Sulfur	ppm	ASTM D5185m	760	**1442**	2672	3347

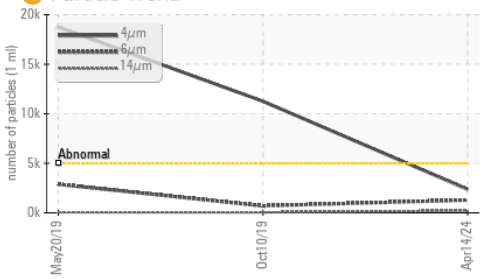
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**3**	5	2
Sodium	ppm	ASTM D5185m		**3**	3	3
Potassium	ppm	ASTM D5185m	>20	**1**	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**2366**	▲ 11261	▲ 18725
Particles >6µm		ASTM D7647	>1300	**1289**	699	▲ 2884
Particles >14µm		ASTM D7647	>160	● **219**	43	54
Particles >21µm		ASTM D7647	>40	● **74**	19	12
Particles >38µm		ASTM D7647	>10	● **11**	0	0
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● **18/17/15**	▲ 21/17/13	▲ 21/19/13

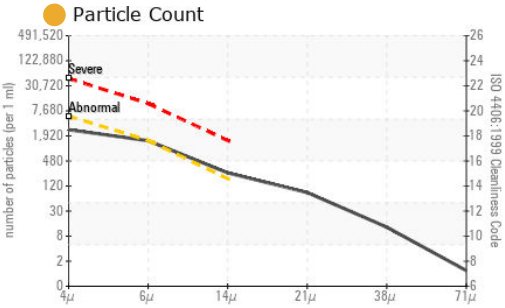
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

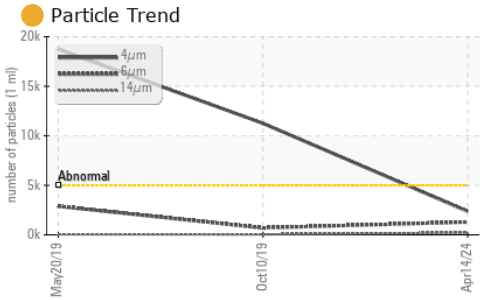
Particle Trend



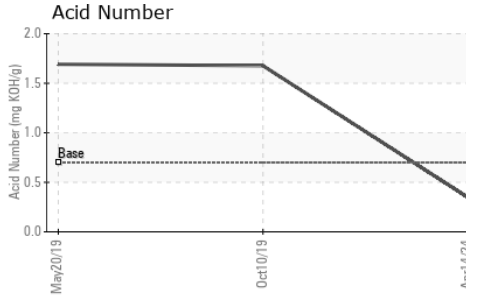
Particle Count



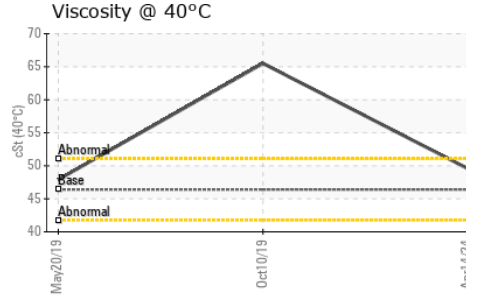
Particle Trend



Acid Number



Viscosity @ 40°C

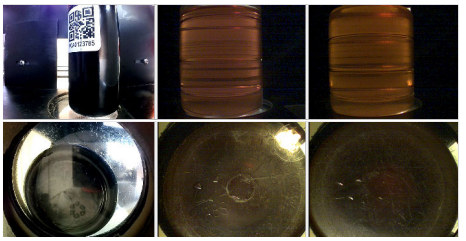


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	**0.35**	1.677	1.692

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

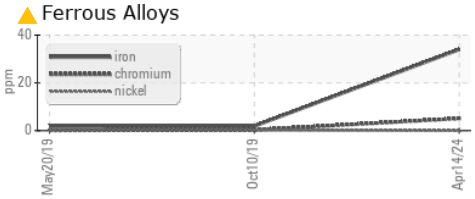
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	**49.58**	65.5	47.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

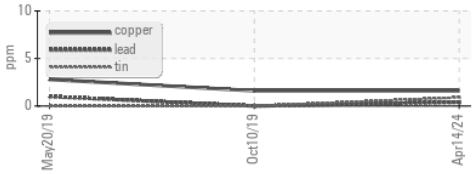


GRAPHS

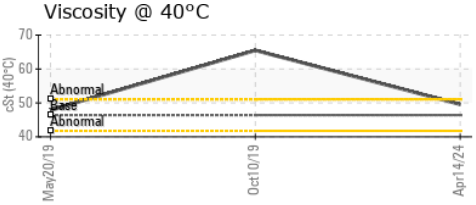
Ferrous Alloys



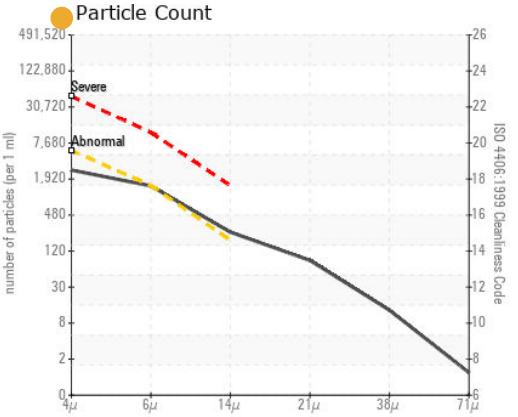
Non-ferrous Metals



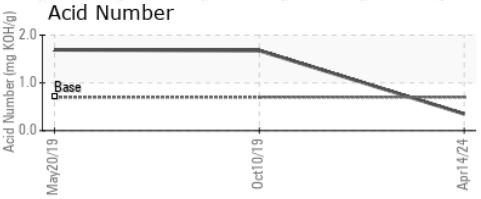
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123785
Lab Number : 06153035
Unique Number : 10983113
Test Package : MOB 2

Received : 18 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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)

SCRAP METAL SERVICES (SMS Mill Services LLC)
1500 COMMERCIAL AVE
MINGO JUNCTION, OH
US 43938
Contact: FRANK NALLY
fnally@scrapmetalservices.com
T:
F:

Report Id: SCRMIN [WUSCAR] 06153035 (Generated: 04/24/2024 18:35:28) Rev: 1

Contact/Location: FRANK NALLY - SCRMIN