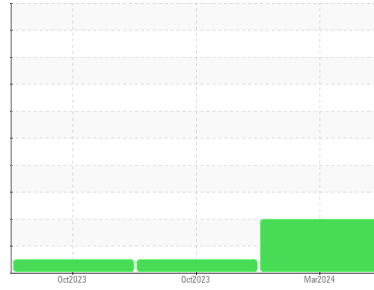




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

MLNGPB-1 (S/N 08-101)

Component

Hydraulic Power Pack

Fluid

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (275 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Before kidney filtration. Fluid hours are from 10/20/23, actual hours are unknown. Found reservoir fill cap open to atmosphere. Reported mobil dte25 iso 46. Main 10" cylinder leaking at gland, replaced. Reservoir topped of with petro canada AW46, 50 gallo)

Wear

All component wear rates are normal.

Contamination

There is a high 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		WC0782725	WC0782766	WC0782765
Sample Date	Client Info		24 Mar 2024	20 Oct 2023	19 Oct 2023
Machine Age	hrs	Client Info	99963	0	0
Oil Age	hrs	Client Info	1371	0	0
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	0	0
Chromium	ppm	ASTM D5185m >20	0	<1	<1
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	0	2	2
Lead	ppm	ASTM D5185m >20	0	<1	<1
Copper	ppm	ASTM D5185m >20	3	4	5
Tin	ppm	ASTM D5185m >20	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	0
Barium	ppm	ASTM D5185m 0	0	9	9
Molybdenum	ppm	ASTM D5185m 0	0	<1	<1
Manganese	ppm	ASTM D5185m 1	0	0	0
Magnesium	ppm	ASTM D5185m 0	0	1	1
Calcium	ppm	ASTM D5185m 100	54	60	60
Phosphorus	ppm	ASTM D5185m 670	320	329	328
Zinc	ppm	ASTM D5185m 850	405	475	469
Sulfur	ppm	ASTM D5185m 1600	1037	1180	1119

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	0	0	0
Sodium	ppm	ASTM D5185m	2	0	0
Potassium	ppm	ASTM D5185m >20	0	1	1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	▲ 1173	825	623
Particles >6µm	ASTM D7647	>80	▲ 231	243	117
Particles >14µm	ASTM D7647	>10	▲ 20	30	10
Particles >21µm	ASTM D7647	>3	▲ 5	10	2
Particles >38µm	ASTM D7647	>3	0	1	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>15/13/10	▲ 17/15/11	17/15/12	16/14/10

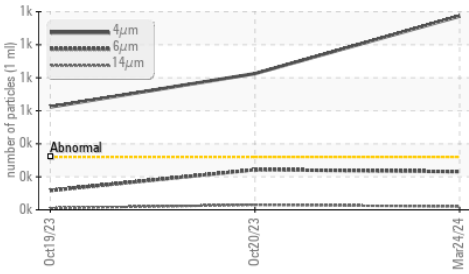
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.60	0.28	0.38	0.34

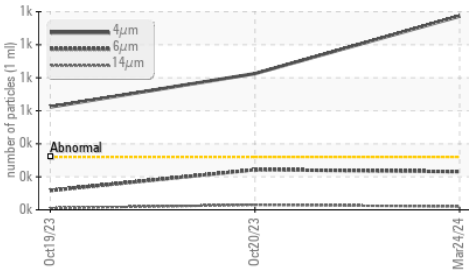


OIL ANALYSIS REPORT

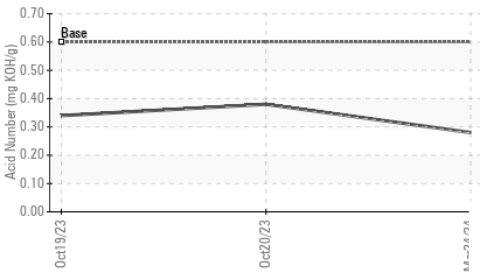
▲ Particle Trend



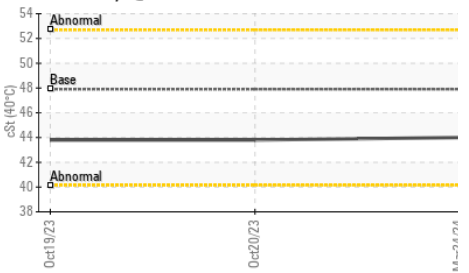
▲ Particle Trend



Acid Number



Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

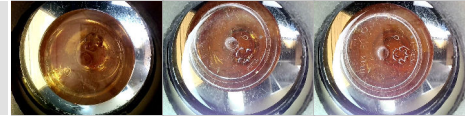
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.9	44.0	43.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color

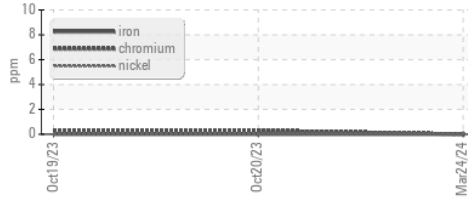


Bottom

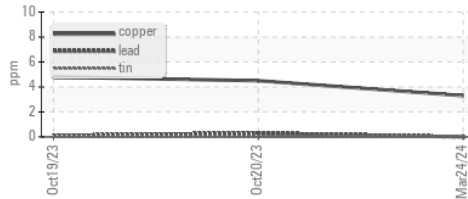


GRAPHS

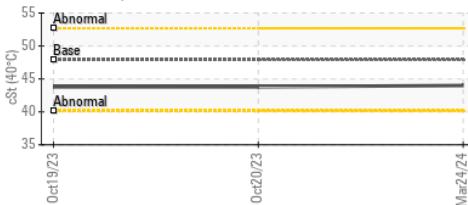
Ferrous Alloys



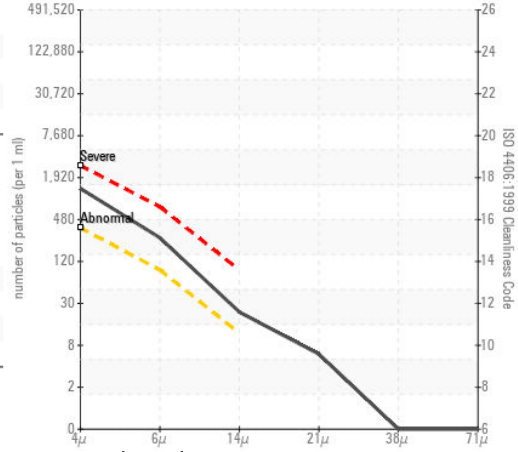
Non-ferrous Metals



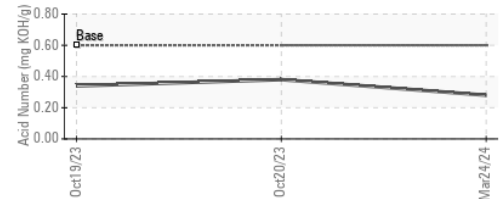
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0782725

Lab Number : 06132734

Unique Number : 10952199

Test Package : IND 2

Received : 28 Mar 2024

Tested : 05 Apr 2024

Diagnosed : 05 Apr 2024 - Doug Bogart

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)

WEST SIDE SOLUTIONS

4506 HWY 90

CONWAY, SC

US 29526-9631

Contact: KEN ANDRE

westsidesolutionsus@gmail.com

T: (216)577-5014

F: