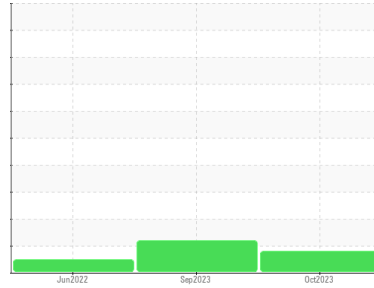




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
Huge L Steel/2171

Component
Hydraulic System

Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0858925	WC0858926	WC0710136
Sample Date	Client Info		18 Oct 2023	19 Sep 2023	30 Jun 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	1
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	1	1	<1
Chromium	ppm	ASTM D5185(m) >10	0	0	0
Nickel	ppm	ASTM D5185(m) >10	0	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	<1
Silver	ppm	ASTM D5185(m)	<1	<1	0
Aluminum	ppm	ASTM D5185(m) >10	<1	<1	<1
Lead	ppm	ASTM D5185(m) >10	0	0	1
Copper	ppm	ASTM D5185(m) >75	<1	<1	0
Tin	ppm	ASTM D5185(m) >10	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	3	3
Barium	ppm	ASTM D5185(m)	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	1	2	2
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	19	22	25
Calcium	ppm	ASTM D5185(m)	3098	3029	3055
Phosphorus	ppm	ASTM D5185(m)	1174	1113	1083
Zinc	ppm	ASTM D5185(m)	1245	1208	1187
Sulfur	ppm	ASTM D5185(m)	3265	3193	3205
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	3	4	4
Sodium	ppm	ASTM D5185(m)	1	1	<1
Potassium	ppm	ASTM D5185(m) >20	0	<1	0

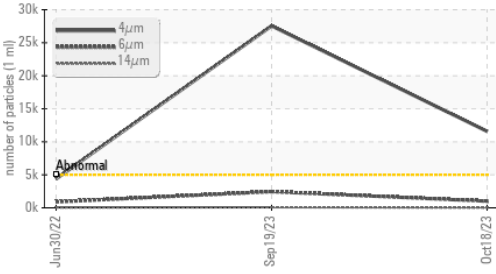
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 11582	▲ 27551	4385
Particles >6µm	ASTM D7647	>1300	1007	▲ 2448	897
Particles >14µm	ASTM D7647	>160	31	88	57
Particles >21µm	ASTM D7647	>40	10	27	13
Particles >38µm	ASTM D7647	>10	3	1	1
Particles >71µm	ASTM D7647	>3	2	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/17/12	▲ 22/18/14	19/17/13

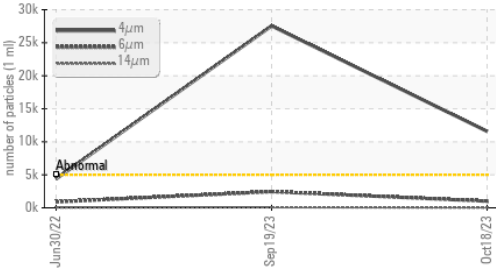


OIL ANALYSIS REPORT

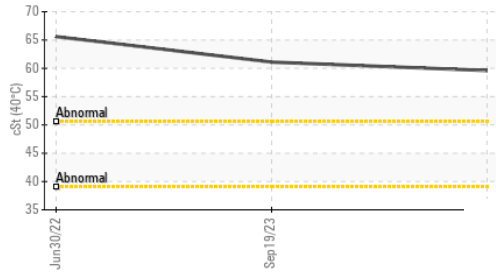
▲ Particle Trend



▲ Particle Trend



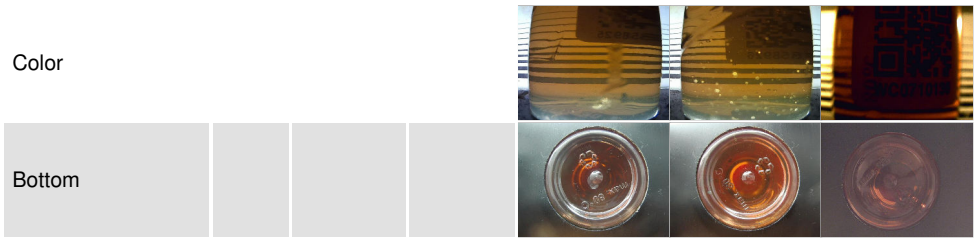
Viscosity @ 40°C



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	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

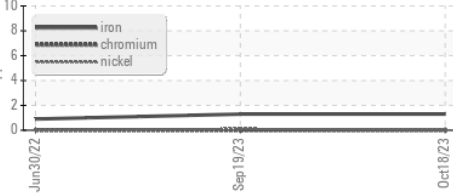
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	59.6	61.1	65.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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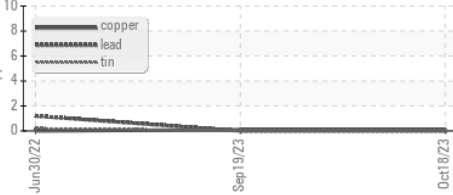


GRAPHS

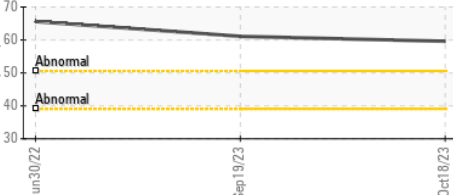
Ferrous Alloys



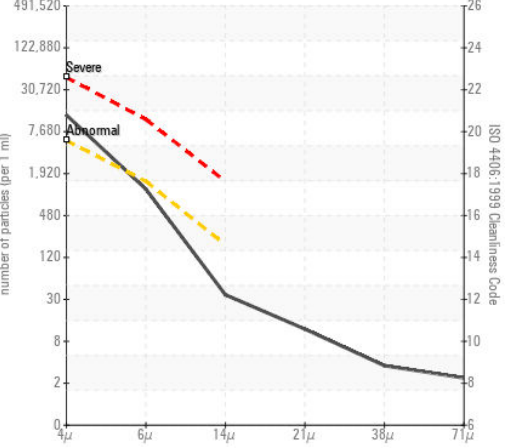
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0858925 **Received** : 23 Oct 2023
Lab Number : 02591061 **Diagnosed** : 24 Oct 2023
Unique Number : 5668140 **Diagnostician** : Wes Davis
Test Package : MOB 2

Vaderstad Industries
 Box 123, 2 miles N on HWY 9
 Langbank, SK
 CA S0G 2X0
 Contact: Doziauwa Etufunwa
 doziauwa.etufunwa@vaderstad.com

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.