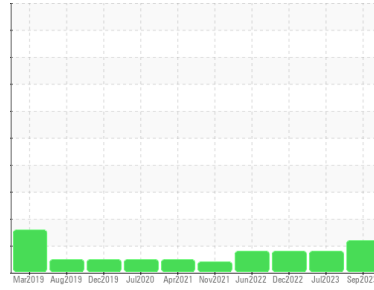




PROBLEM SUMMARY

Sample Rating Trend

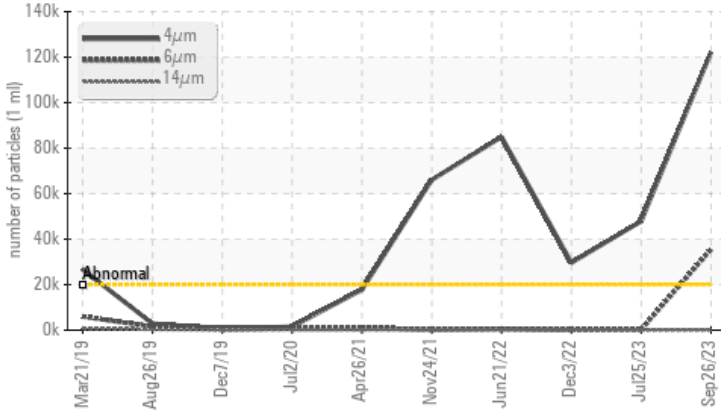
ISO



Machine Id
ESCALADE ESCALADE ESV (S/N 0031701B)
 Component
Gasoline Engine
 Fluid
MOBIL 1 5W30 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647	>20000	▲ 122171	▲ 47861	▲ 29653
Particles >6µm	ASTM D7647	>5000	▲ 35503	216	112
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/11	▲ 23/15/10	▲ 22/14/9

Customer Id: JONLINNE
 Sample No.: USP242144
 Lab Number: 05965410
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

25 Jul 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



03 Dec 2022 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



21 Jun 2022 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

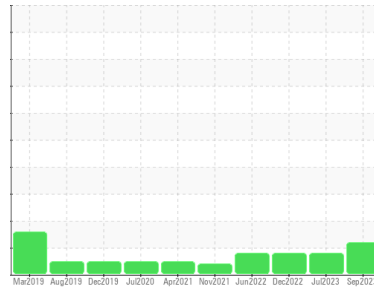




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
ESCALADE ESCALADE ESV (S/N 0031701B)

Component
Gasoline Engine
Fluid
MOBIL 1 5W30 (--- QTS)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) 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		USP242144	USP242368	USP232239
Sample Date	Client Info		26 Sep 2023	25 Jul 2023	03 Dec 2022
Machine Age	mls	Client Info	168591	167652	158612
Oil Age	mls	Client Info	177	15000	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>150	3	51	16
Chromium	ppm	ASTM D5185m	>20	0	2	<1
Nickel	ppm	ASTM D5185m	>5	0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	6	8	4
Lead	ppm	ASTM D5185m	>50	1	0	0
Copper	ppm	ASTM D5185m	>155	6	24	19
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	94	63	32	32
Barium	ppm	ASTM D5185m	0.0	0	1	0
Molybdenum	ppm	ASTM D5185m	0.0	88	81	75
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	1388	643	677	616
Calcium	ppm	ASTM D5185m	820	687	1064	973
Phosphorus	ppm	ASTM D5185m	720	653	669	626
Zinc	ppm	ASTM D5185m	780	798	851	737
Sulfur	ppm	ASTM D5185m	2240	2235	2116	2325

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	16	21	10
Sodium	ppm	ASTM D5185m	>400	7	7	0
Potassium	ppm	ASTM D5185m	>20	2	5	3
Water	%	ASTM D6304	>0.2	0.019	0.065	0.041
ppm Water	ppm	ASTM D6304	>2000	192.2	655.0	413.9

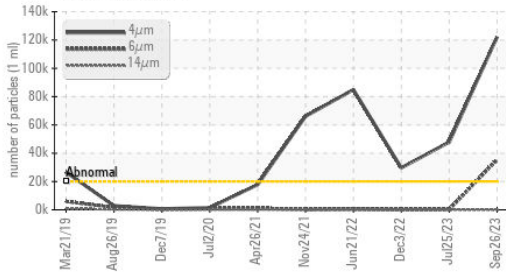
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 122171	▲ 47861	▲ 29653
Particles >6µm	ASTM D7647	>5000	▲ 35503	216	112
Particles >14µm	ASTM D7647	>640	15	6	4
Particles >21µm	ASTM D7647	>160	2	1	0
Particles >38µm	ASTM D7647	>40	1	1	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/11	▲ 23/15/10	▲ 22/14/9

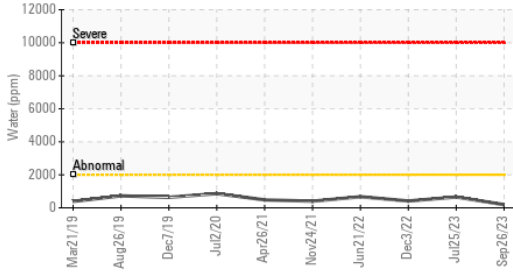


OIL ANALYSIS REPORT

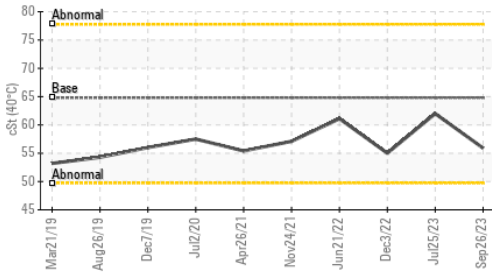
Particle Trend



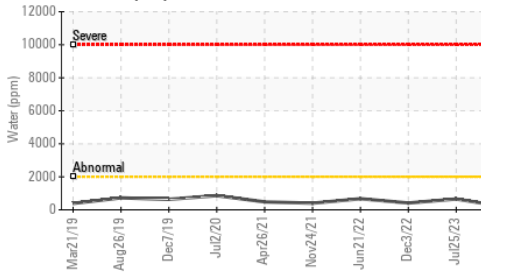
Water (KF)



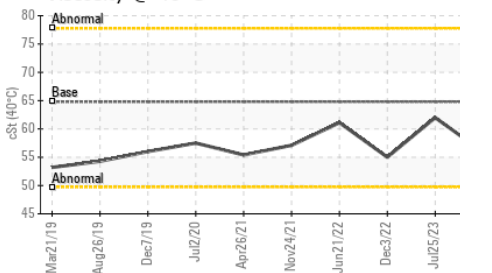
Viscosity @ 40°C



Water (KF)



Viscosity @ 40°C



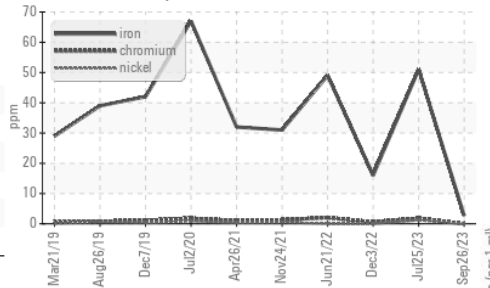
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	3.70	1.58

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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

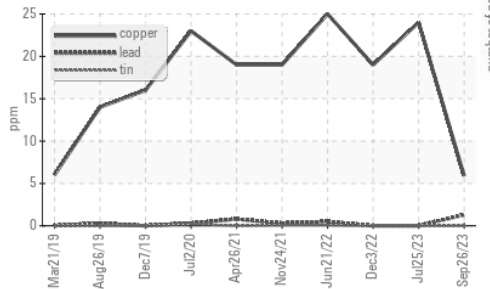
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.9	62.0	55.0

GRAPHS

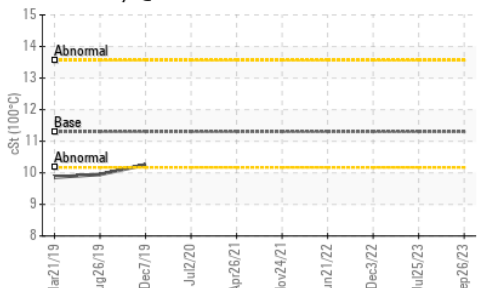
Ferrous Alloys



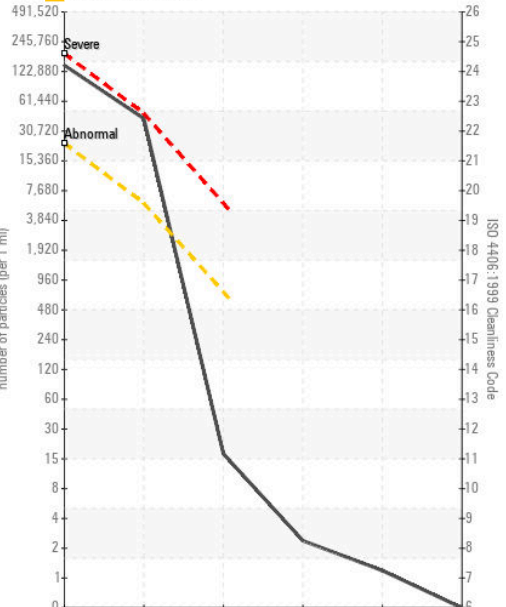
Non-ferrous Metals



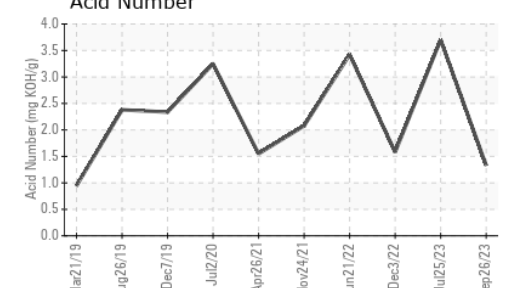
Viscosity @ 100°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP242144 **Received** : 29 Sep 2023
Lab Number : 05965410 **Diagnosed** : 02 Oct 2023
Unique Number : 10671961 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KV100)

JON DUVAL
 447 N 66TH ST, UNIT 3
 LINCOLN, NE
 US 68505
 Contact: JON DUVAL

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)

T:
F: