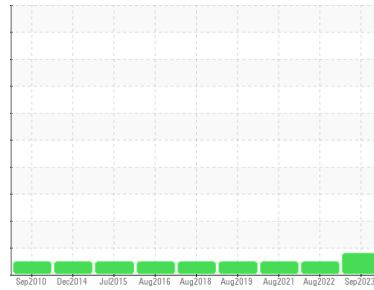
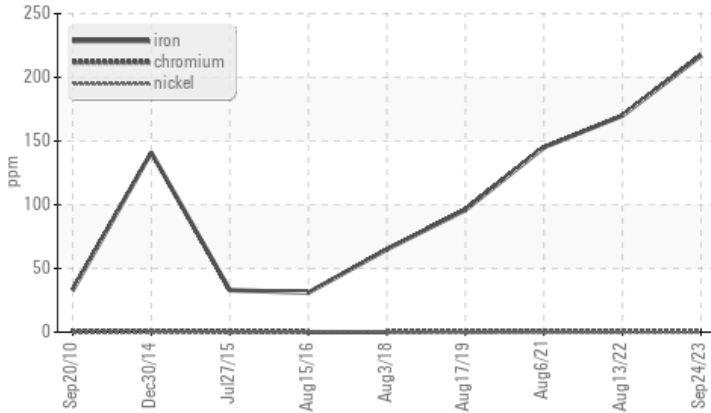


Machine Id  
**DAVIS STANDARD EM 3 EXTRUDER**  
Component  
**Gearbox**  
Fluid  
**ESSO SPARTAN EP 150 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>MARGINAL</b>	NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>200	▲ 217	170	145

**Customer Id:** SHAREX  
**Sample No.:** AW0004025  
**Lab Number:** 02587311  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

**RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**HISTORICAL DIAGNOSIS**

**13 Aug 2022 Diag: Wes Davis**

**NORMAL**



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



**06 Aug 2021 Diag: Wes Davis**

**NORMAL**



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



**17 Aug 2019 Diag: Wes Davis**

**NORMAL**

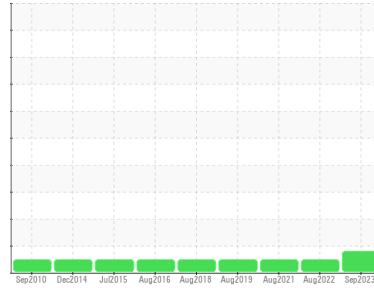


Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



Machine Id  
**DAVIS STANDARD EM 3 EXTRUDER**  
 Component  
**Gearbox**  
 Fluid  
**ESSO SPARTAN EP 150 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**

Iron ppm levels are marginal. All other component wear rates are normal.

**Contamination**

There is no indication of any contamination 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		<b>AW0004025</b>	AW0003983	AW0003882
Sample Date	Client Info		<b>24 Sep 2023</b>	13 Aug 2022	06 Aug 2021
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>84</b>	68	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Chngd
Sample Status			<b>MARGINAL</b>	NORMAL	NORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>80</b>	---	---
Iron	ppm	ASTM D5185(m) >200	<b>▲ 217</b>	170	145
Chromium	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m) >100	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >200	<b>7</b>	7	9
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.0	<b>5</b>	5	6
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>3</b>	3	2
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m) 0.8	<b>5</b>	5	5
Phosphorus	ppm	ASTM D5185(m) 250	<b>261</b>	269	279
Zinc	ppm	ASTM D5185(m) 1.0	<b>11</b>	10	9
Sulfur	ppm	ASTM D5185(m) 5133	<b>12780</b>	12978	12796
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

**CONTAMINANTS**

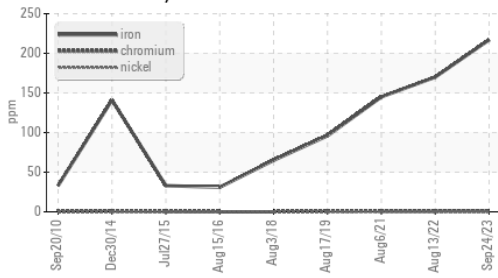
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>4</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

**FLUID DEGRADATION**

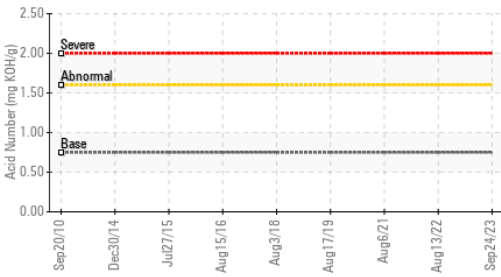
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.75	<b>0.68</b>	---	---

# OIL ANALYSIS REPORT

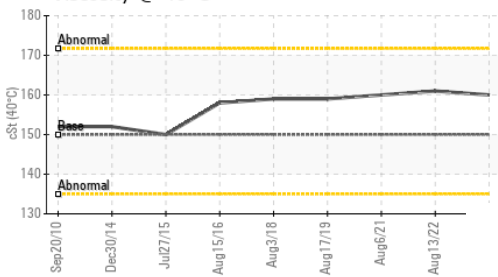
**▲ Ferrous Alloys**



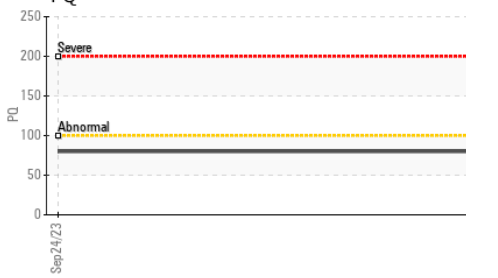
**Acid Number**



**Viscosity @ 40°C**



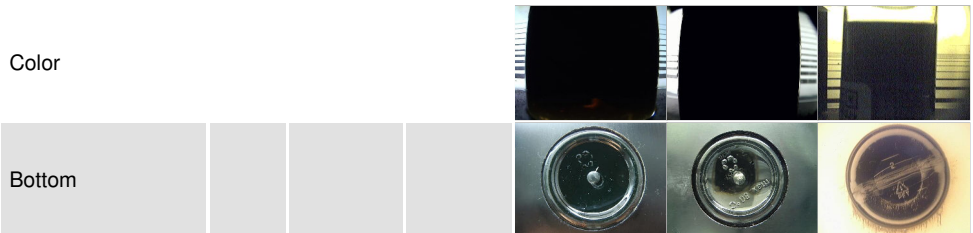
**PQ**



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

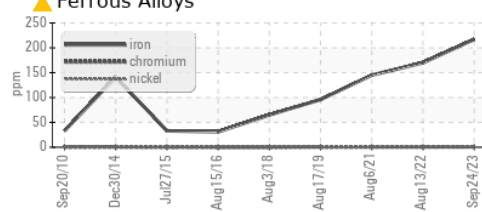
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	150	160	161

SAMPLE IMAGES	method	limit/base	current	history1	history2
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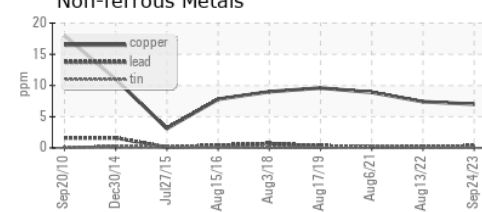


**GRAPHS**

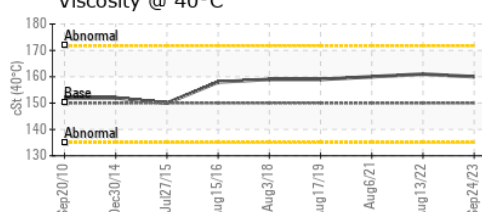
**▲ Ferrous Alloys**



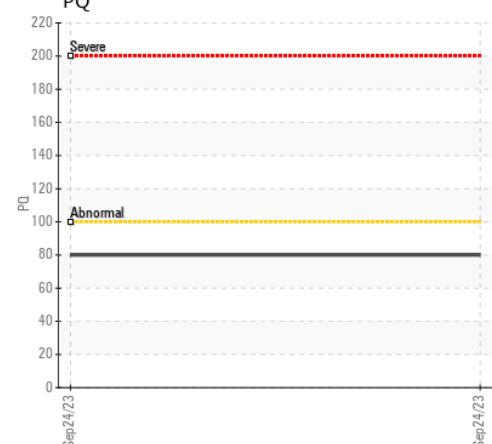
**Non-ferrous Metals**



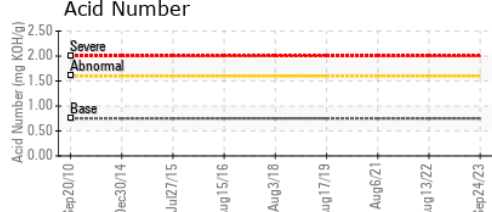
**Viscosity @ 40°C**



**PQ**



**Acid Number**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : AW0004025  
**Lab Number** : 02587311  
**Unique Number** : 5656377  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**SHAWFLEX INC.**  
 25 BETHRIDGE ROAD  
 TORONTO, ON  
 CA M9W 1M7  
 Contact: Robert Fuller  
 rfuller@shawflex.shawcor.com  
 T: (416)743-7111  
 F: (416)743-5060

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.