

Machine Id
DAVIS STANDARD EM8 EXTRUDER

Component
Gearbox
Fluid
ESSO SPARTAN EP 150 (--- LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear
All 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 | | AW0004024 | AW0003984 | AW0003883 |
| Sample Date | Client Info | | 24 Sep 2023 | 13 Aug 2022 | 06 Aug 2021 |
| Machine Age | mths | Client Info | 0 | 0 | 0 |
| Oil Age | mths | Client Info | 24 | 3 | 0 |
| Oil Changed | Client Info | | Not Changed | Changed | Not Changed |
| Sample Status | | | NORMAL | NORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------|--------------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 0 | --- | --- |
| Iron | ppm | ASTM D5185(m) >200 | 2 | 4 | 18 |
| Chromium | ppm | ASTM D5185(m) >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >15 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | <1 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >200 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) >25 | 0 | 0 | <1 |
| Antimony | ppm | ASTM D5185(m) >5 | 0 | <1 | 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) 4.0 | 30 | 65 | 16 |
| Barium | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) 0 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) 0.8 | 1 | 2 | 5 |
| Phosphorus | ppm | ASTM D5185(m) 250 | 274 | 291 | 408 |
| Zinc | ppm | ASTM D5185(m) 1.0 | 4 | 6 | 6 |
| Sulfur | ppm | ASTM D5185(m) 5133 | 6197 | 5471 | 9419 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

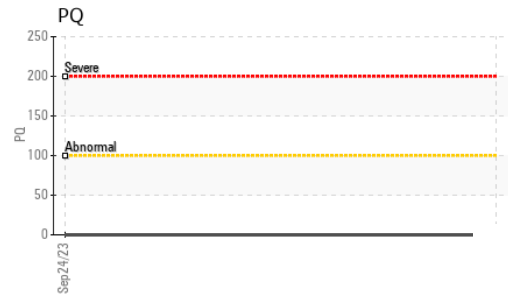
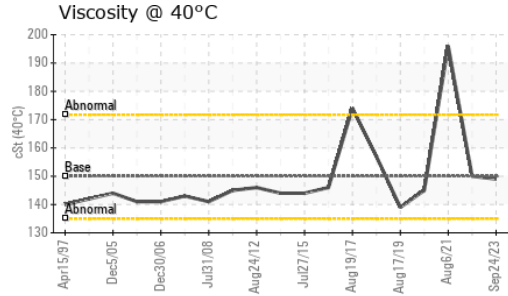
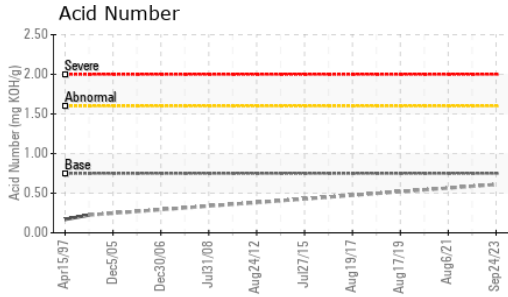
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >50 | 6 | 1 | 9 |
| Sodium | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | 0 | <1 | <1 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* 0.75 | 0.61 | --- | --- |

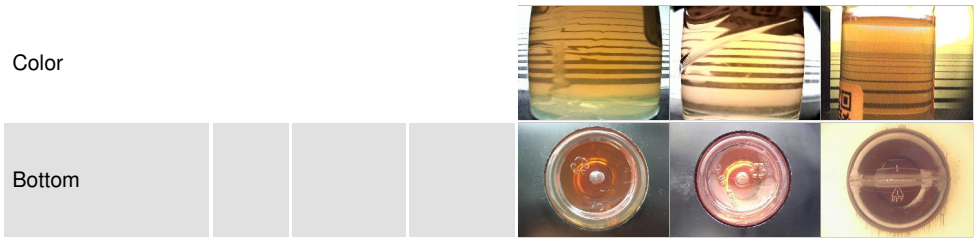
OIL ANALYSIS REPORT



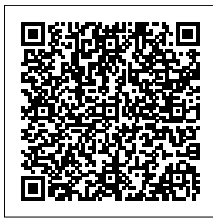
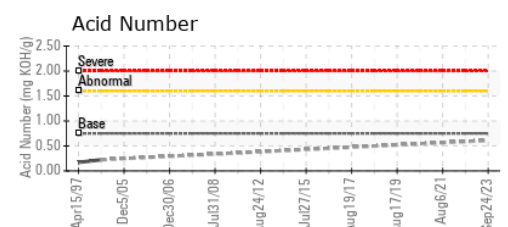
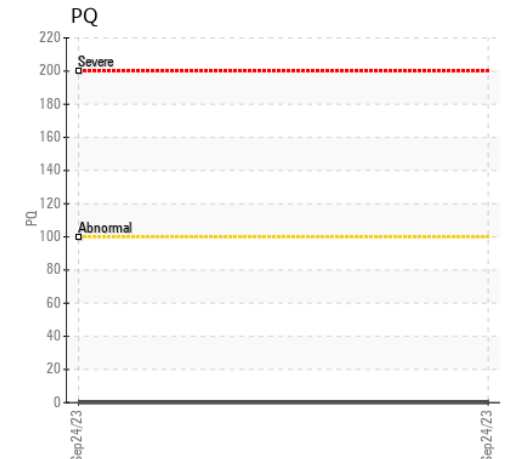
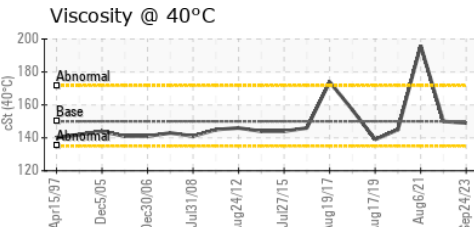
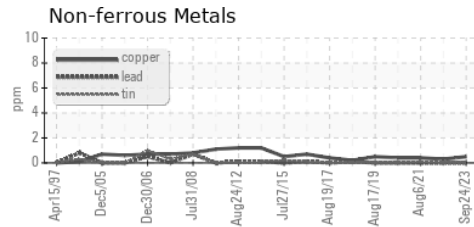
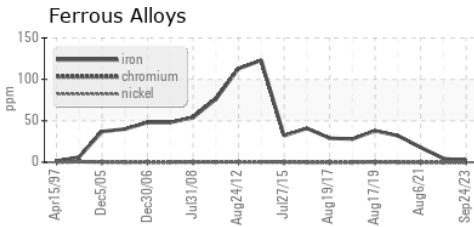
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | 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 | 149 | 150 ▲ 196 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : AW0004024 **Received** : 05 Oct 2023
Lab Number : 02587313 **Diagnosed** : 06 Oct 2023
Unique Number : 5656379 **Diagnostician** : Wes Davis
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.