



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

[22229077]

Machine Id

129-172 DISCHARGE SCREW (BEARING HOUSING)

Component

Bearing

Fluid

ESSO SPARTAN EP 150 (3 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you change the oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0930290	WC0900434	WC0840171
Sample Date		Client Info		29 May 2024	26 Mar 2024	05 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

PQ levels are abnormal. Iron ppm levels are abnormal. Bearing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

PQ		ASTM D8184*		▲ 110	53	21
Iron	ppm	ASTM D5185(m)	>20	▲ 152	▲ 136	73
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>20	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

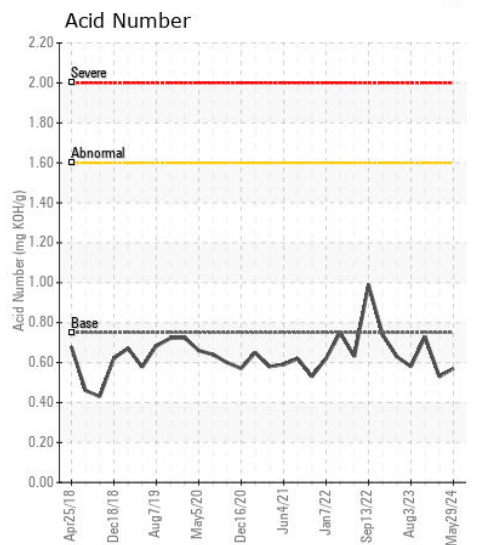
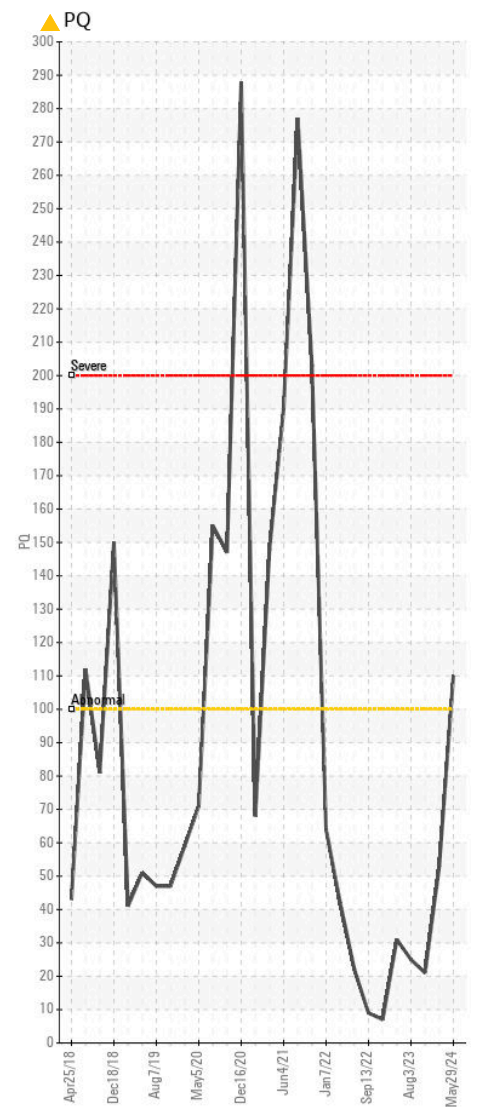
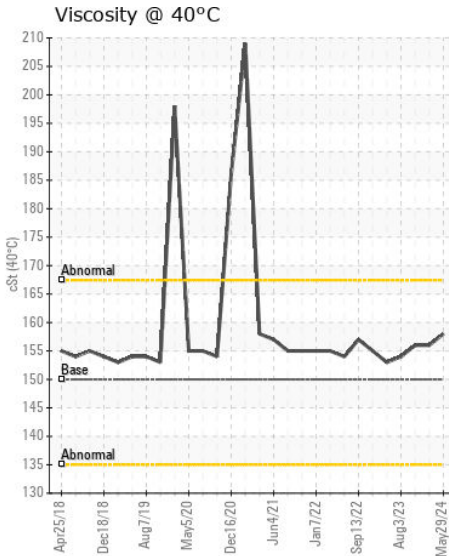
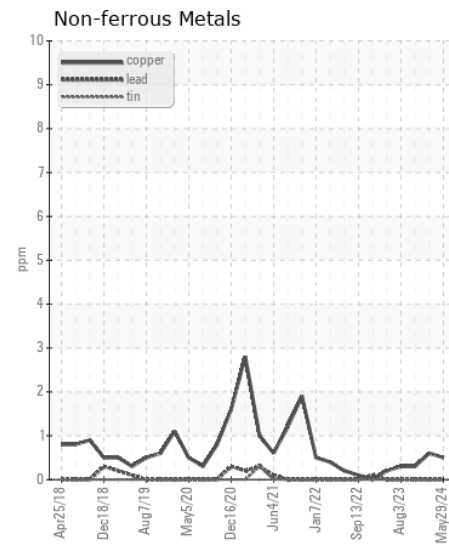
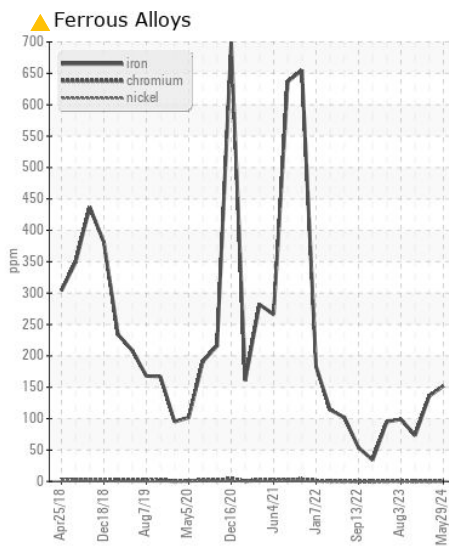
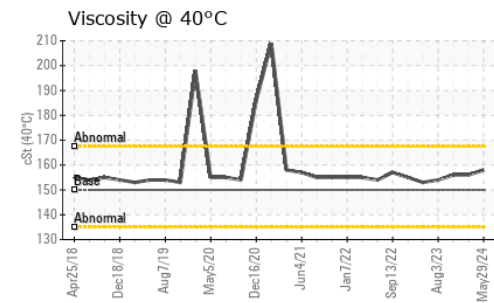
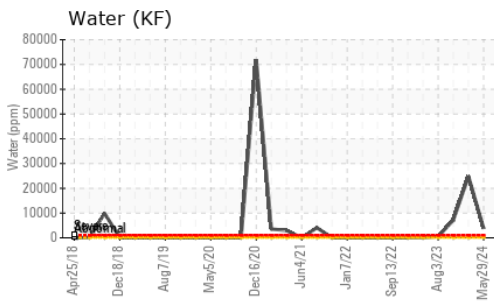
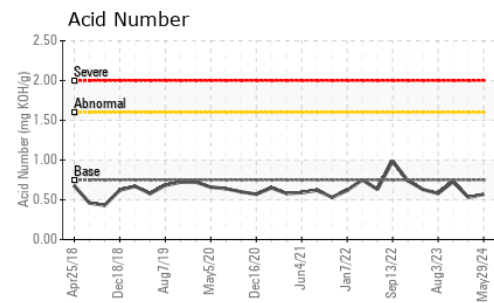
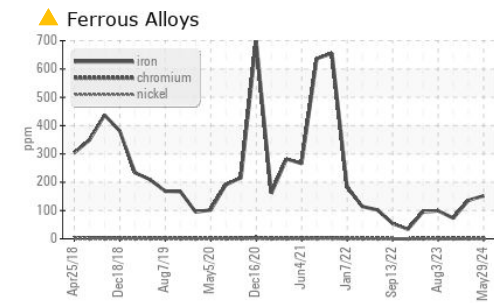
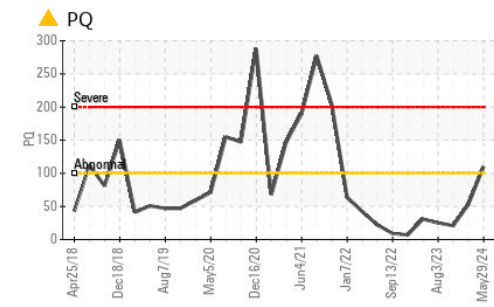
Excessive free water present.

Silicon	ppm	ASTM D5185(m)	>15	<1	<1	1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>2	0.379	▲ 2.484	0.712
ppm Water	ppm	ASTM D6304*		3796	▲ 24841	7128.1
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ LAYRD	▲ WGOIL	▲ WGOIL
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	▲ .2%	.5%

FLUID CONDITION

The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		0	0	<1
Boron	ppm	ASTM D5185(m)	4.0	2	2	16
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		1	<1	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	0.8	1	3	7
Phosphorus	ppm	ASTM D5185(m)	250	294	305	313
Zinc	ppm	ASTM D5185(m)	1.0	5	9	6
Sulfur	ppm	ASTM D5185(m)	5133	11265	11483	14708
Acid Number (AN)	mg KOH/g	ASTM D974*	0.75	0.57	0.53	0.73
Visc @ 40°C	cSt	ASTM D7279(m)	150	158	156	156



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0930290 **Received** : 06 Jun 2024
Lab Number : 02640336 **Tested** : 11 Jun 2024
Unique Number : 5789498 **Diagnosed** : 11 Jun 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, KF, TAN Man)

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.

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