

PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



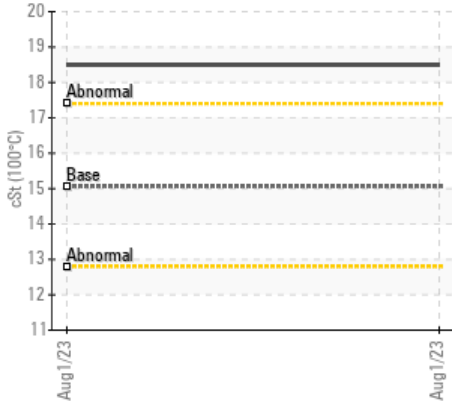
Machine Id
FALK 207 EXT

Component
Reduction Gear

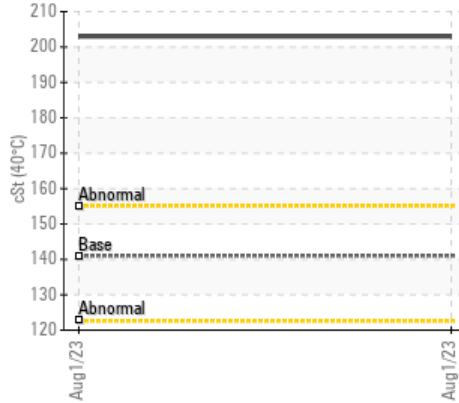
Fluid
PETRO CANADA TRAXON 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY

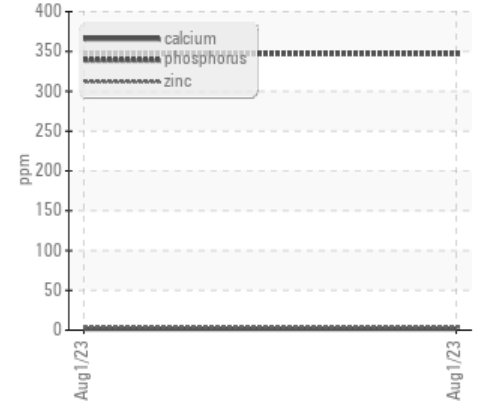
▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



▲ Additives



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Boron	ppm	ASTM D5185(m)	243	▲ 76	---	---
Phosphorus	ppm	ASTM D5185(m)	987	▲ 347	---	---
Sulfur	ppm	ASTM D5185(m)	21530	▲ 6943	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	▲ 203	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	▲ 18.5	---	---

Customer Id: ARCWIN
Sample No.: PC0077138
Lab Number: 02582959
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
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RECOMMENDED ACTIONS

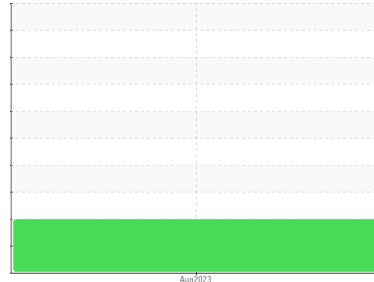
Action	Status	Date	Done By	Description
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

Machine Id
FALK 207 EXT

Component
Reduction Gear

Fluid
PETRO CANADA TRAXON 80W90 (--- GAL)



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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		PC0077138	---	---
Sample Date	Client Info		01 Aug 2023	---	---
Machine Age	yrs	Client Info	1	---	---
Oil Age	yrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>150	<1	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	0	---	---
Lead	ppm	ASTM D5185(m)	>100	0	---	---
Copper	ppm	ASTM D5185(m)	>50	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Antimony	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	243	▲ 76	---	---
Barium	ppm	ASTM D5185(m)	1	0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	2	<1	---	---
Calcium	ppm	ASTM D5185(m)	6	2	---	---
Phosphorus	ppm	ASTM D5185(m)	987	▲ 347	---	---
Zinc	ppm	ASTM D5185(m)	1	4	---	---
Sulfur	ppm	ASTM D5185(m)	21530	▲ 6943	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>50	2	---	---
Sodium	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---

FLUID DEGRADATION method limit/base current history1 history2

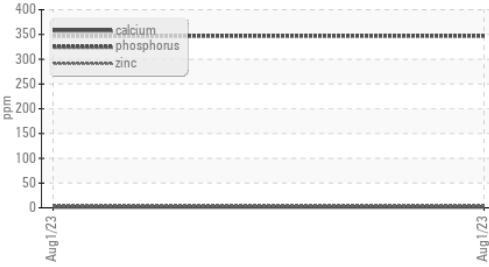
Acid Number (AN)	mg KOH/g	ASTM D974*	1.9	0.46	---	---
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OIL ANALYSIS REPORT

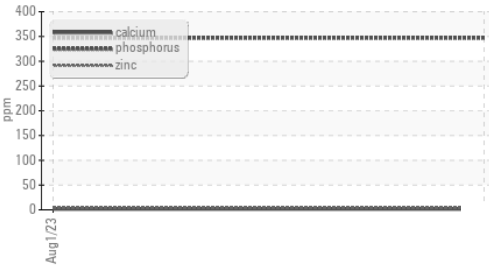
▲ Viscosity @ 100°C



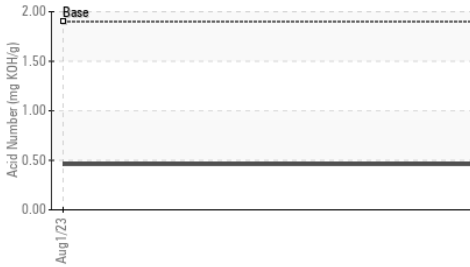
▲ Additives



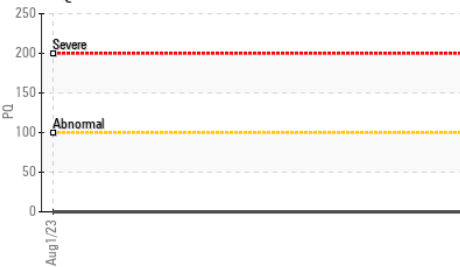
▲ Additives



Acid Number



PQ



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	▲ 203	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	▲ 18.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	108	100	---

SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

Ferrous Alloys



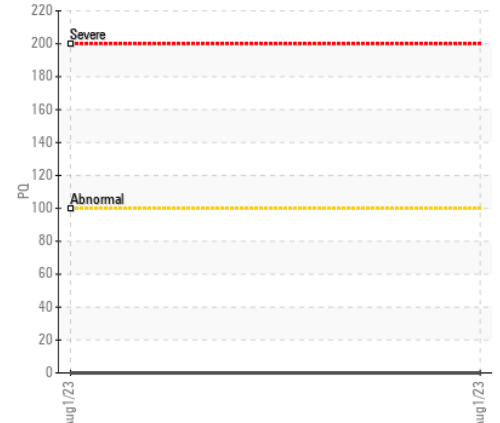
Non-ferrous Metals



▲ Viscosity @ 40°C



PQ



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCHER DANIELS MIDLAND COMPANY (ADM)
Sample No. : PC0077138 **Received** : 15 Sep 2023
Lab Number : 02582959 **Diagnosed** : 18 Sep 2023
Unique Number : 5644024 **Diagnostician** : Bill Quesnel
Test Package : IND 2 (Additional Tests: KV100, VI)

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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