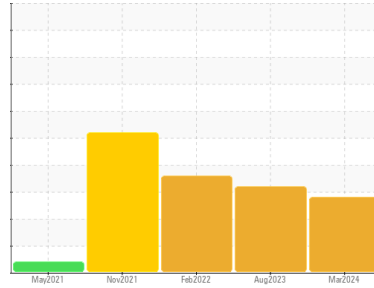




OIL ANALYSIS REPORT

Sample Rating Trend



Area

MIX ROOM D [98842811]

Machine Id

KR-GR-003475 TRANSFER HOPPER (S/N MIX D - 11535134)

Component

Pump

Fluid

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (44 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. (Customer Sample Comment: 98842811)

Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

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		PCA0120397	PCA0103747	PCA0065860
Sample Date	Client Info		11 Mar 2024	10 Aug 2023	28 Feb 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	14	35	75
Chromium	ppm	ASTM D5185m >5	<1	<1	1
Nickel	ppm	ASTM D5185m >5	<1	<1	2
Titanium	ppm	ASTM D5185m >3	2	0	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >7	5	2	9
Lead	ppm	ASTM D5185m >12	<1	0	0
Copper	ppm	ASTM D5185m >30	<1	0	<1
Tin	ppm	ASTM D5185m >9	<1	0	<1
Antimony	ppm	ASTM D5185m	---	---	2
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	15	37
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	8	<1	66
Manganese	ppm	ASTM D5185m	<1	<1	1
Magnesium	ppm	ASTM D5185m 0	<1	<1	2
Calcium	ppm	ASTM D5185m 0	21	237	349
Phosphorus	ppm	ASTM D5185m 600	582	238	544
Zinc	ppm	ASTM D5185m 0	10	39	101
Sulfur	ppm	ASTM D5185m 500	937	691	5049

CONTAMINANTS

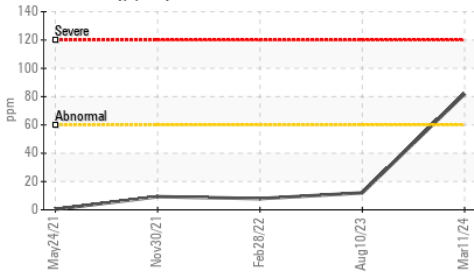
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	▲ 82	12	8
Sodium	ppm	ASTM D5185m	1	<1	23
Potassium	ppm	ASTM D5185m >20	<1	<1	<1

FLUID DEGRADATION

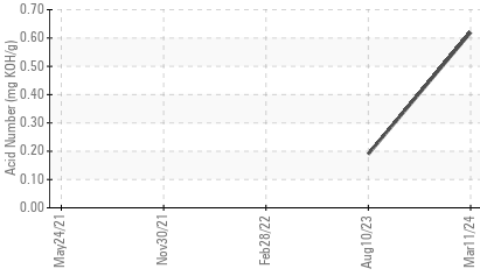
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.62	0.19	---

OIL ANALYSIS REPORT

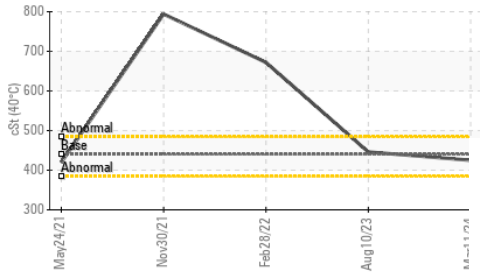
▲ Silicon (ppm)



Acid Number



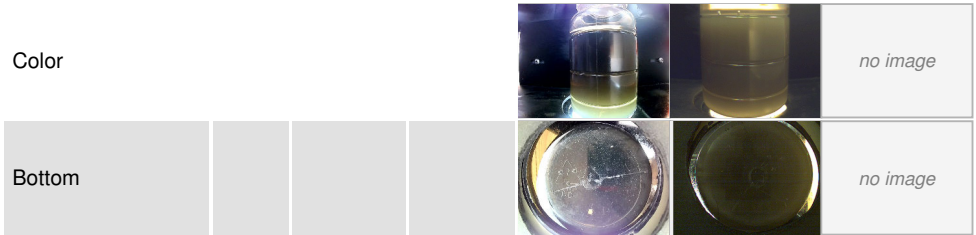
Viscosity @ 40°C



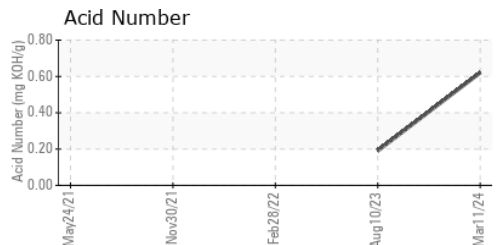
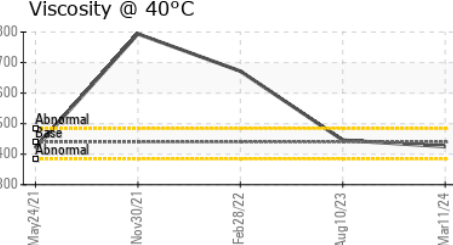
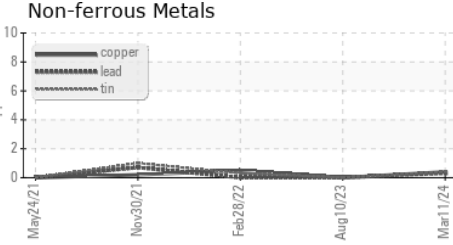
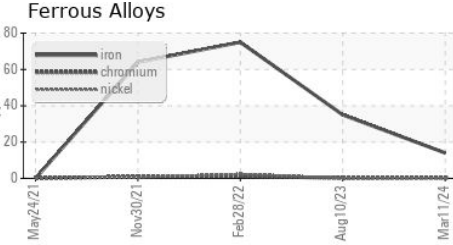
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	NONE LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER NONE
Debris	scalar	*Visual	NONE	NONE	NONE NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY NORML
Odor	scalar	*Visual	NORML	NORML	NORML NORML
Emulsified Water	scalar	*Visual	>.1	NEG	▲ 0.2% ▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	440	425	446 ● 672

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0120397

Lab Number : 06133267

Unique Number : 10952732

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 29 Mar 2024

Tested : 03 Apr 2024

Diagnosed : 03 Apr 2024 - Don Baldrige

KraftHeinz - Kirksville - Plant 8333 PCA

2504 INDUSTRIAL DR

KIRKSVILLE, MO

US 63501

Contact: WALLACE WARD

wallace.ward@kraftheinzcompany.com

T: (660)627-1031

F: (660)627-5887

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)