

Machine Id
COMP 3 (S/N 5508373)

Component
3 Compressor

Fluid
PETRO CANADA SYNDURO SHB ISO 68 (50 mL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0080811	PC0080812	PC0080818
Sample Date	Client Info			03 May 2024	10 Mar 2024	15 Jan 2024
Machine Age	hrs	Client Info		39050	38050	37079
Oil Age	hrs	Client Info		189	2006	3659
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	0	0	0
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	0	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	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

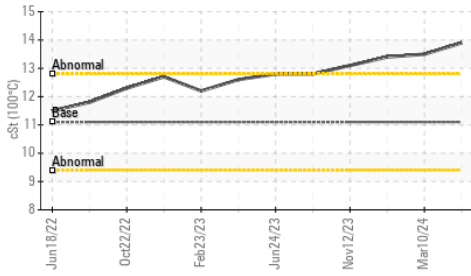
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	5.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5.0	<1	0	0
Calcium	ppm	ASTM D5185(m)	5.0	0	0	<1
Phosphorus	ppm	ASTM D5185(m)	100	27	15	10
Zinc	ppm	ASTM D5185(m)	5.0	1	2	2
Sulfur	ppm	ASTM D5185(m)	1900	1157	1408	1441
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	0	0	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water	%	ASTM D6304*	>0.1	0.003	0.003	0.002
ppm Water	ppm	ASTM D6304*	>1000	31	28	25

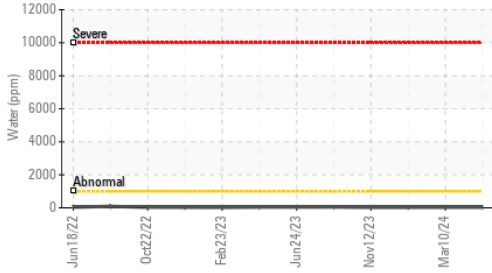
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.3	---	0.24	0.21

OIL ANALYSIS REPORT

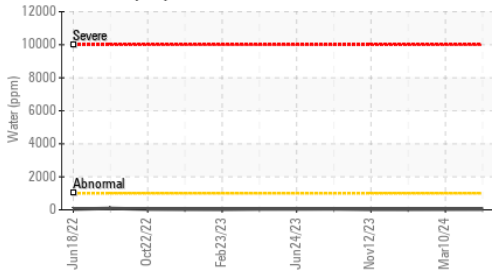
▲ Viscosity @ 100°C



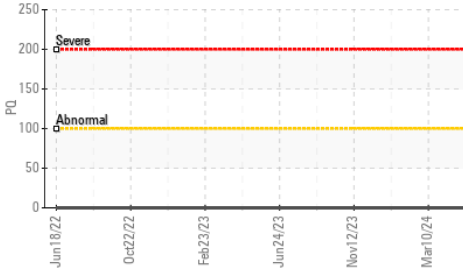
Water (KF)



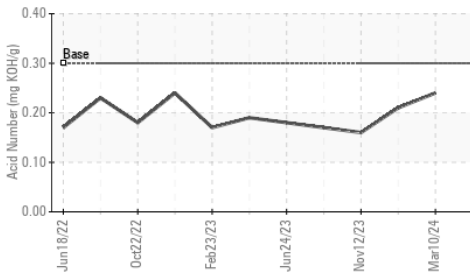
Water (KF)



PQ



Acid Number



VISUAL

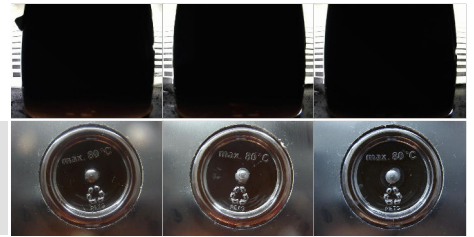
	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar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

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68.0 ▲ 92.6	▲ 89.0	▲ 87.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.1 ▲ 13.9	▲ 13.5	▲ 13.4
Viscosity Index (VI)	Scale	ASTM D2270*	155	153	155

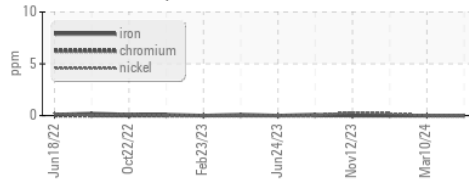
SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					

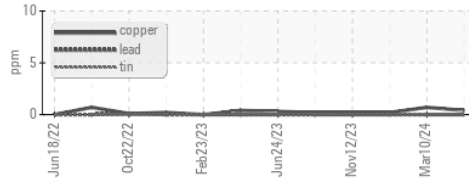


GRAPHS

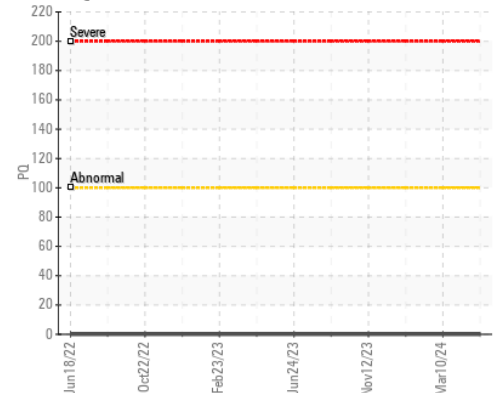
Ferrous Alloys



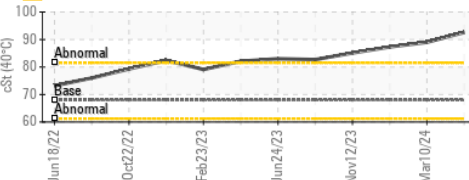
Non-ferrous Metals



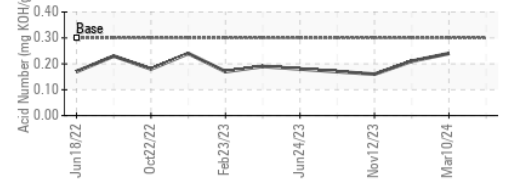
PQ



▲ Viscosity @ 40°C



Acid Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080811
Lab Number : 02634341
Unique Number : 5775494
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Powercor Manufacturing - Linamar
 545 Elmira Road
 Guelph, ON
 CA N1K 1C2
 Contact: Manthan Rathi
 manthan.rathi@linamar.com
 T: (226)326-0125
 F: (226)326-0124

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.