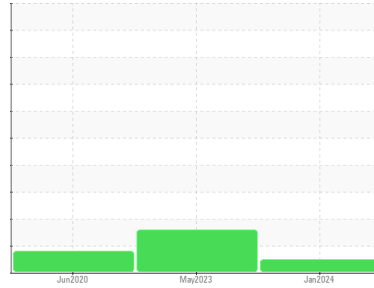


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
HYUNDAI E-49 - 0000071

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX MV 32 (127 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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		PCA0110082	WC0661507	WCDB5026
Sample Date	Client Info		19 Jan 2024	21 May 2023	11 Jun 2020
Machine Age	hrs	Client Info	5512	4893	2946
Oil Age	hrs	Client Info	619	1100	2327
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	19	▲ 22	7
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >10	1	0	1
Lead	ppm	ASTM D5185m >10	3	0	<1
Copper	ppm	ASTM D5185m >75	13	18	35
Tin	ppm	ASTM D5185m >10	1	0	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	2	2	5
Manganese	ppm	ASTM D5185m	2	0	<1
Magnesium	ppm	ASTM D5185m	11	18	41
Calcium	ppm	ASTM D5185m	90	123	220
Phosphorus	ppm	ASTM D5185m	357	380	436
Zinc	ppm	ASTM D5185m	462	442	578
Sulfur	ppm	ASTM D5185m	909	1200	982

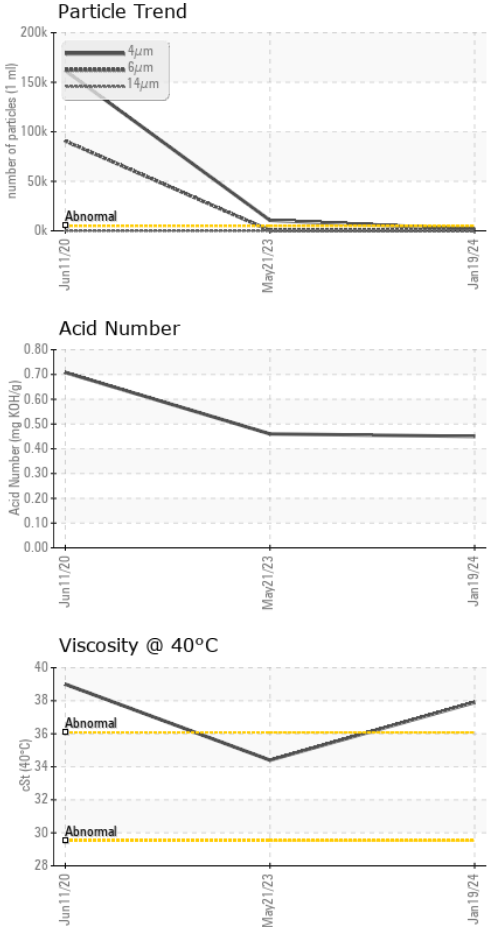
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	4	2	4
Sodium	ppm	ASTM D5185m	4	3	<1
Potassium	ppm	ASTM D5185m >20	4	0	<1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1658	▲ 10595	▲ 161669
Particles >6µm	ASTM D7647	>1300	81	325	▲ 90649
Particles >14µm	ASTM D7647	>160	9	36	134
Particles >21µm	ASTM D7647	>40	4	5	6
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/14/10	▲ 21/16/12	▲ 25/24/14

OIL ANALYSIS REPORT

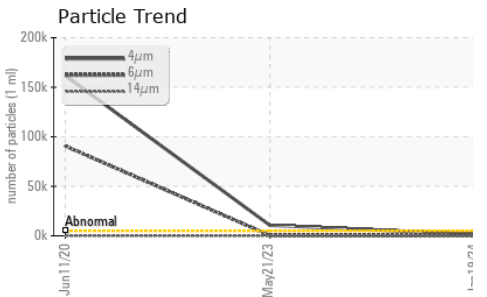
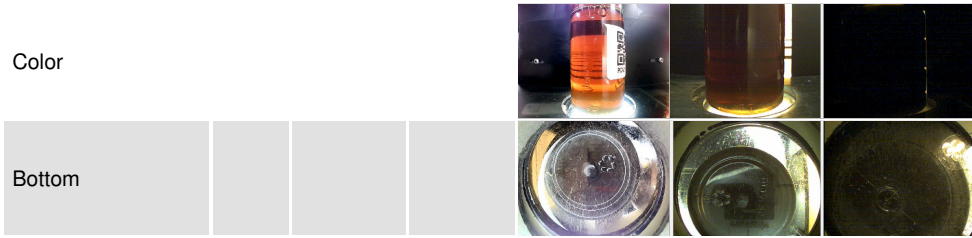


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.46	0.708

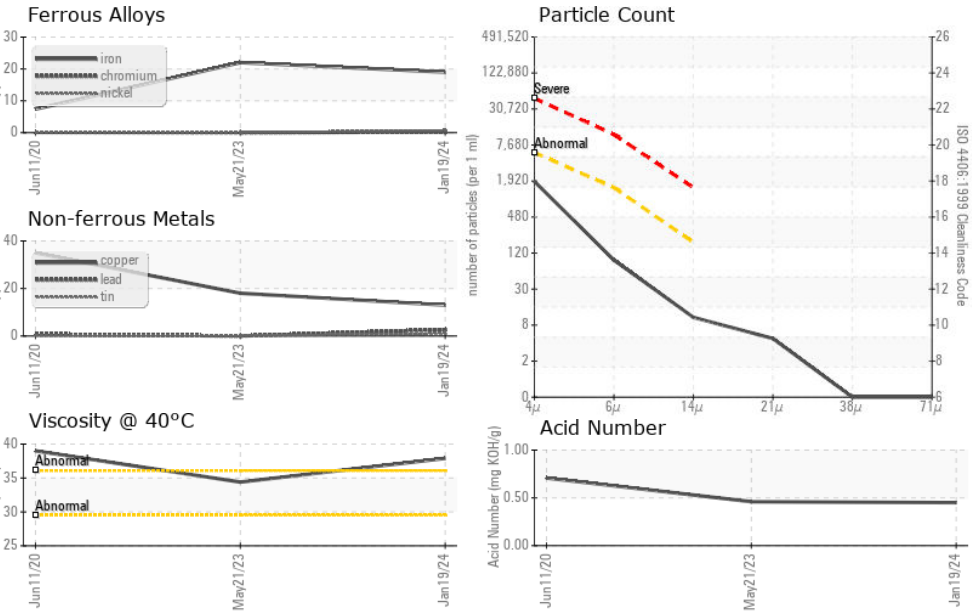
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		37.9	34.4	39.0

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110082
Lab Number : 06079073
Unique Number : 10861164
Test Package : MOB 2

Received : 02 Feb 2024
Tested : 05 Feb 2024
Diagnosed : 06 Feb 2024 - Jonathan Hester

LORUSSO BRISTOL STONE CORP
 611 PLEASANT ST
 WEYMOUTH, MA
 US 02189
 Contact: PAUL MOGAN
 lbstone611@comcast.net
 T: (781)331-5379
 F: (781)337-8274

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)