



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
HASKEL CO WHEELS & BRAKE (S/N 1098-706)
 Component
Reciprocating Compressor
 Fluid
ROYCO RED (2 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0869387	WC0869393	WC0869396
Sample Date		Client Info		03 Jul 2024	16 Apr 2024	19 Jan 2024
Machine Age	hrs	Client Info		0	0	200
Oil Age	hrs	Client Info		0	200	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	0	0
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

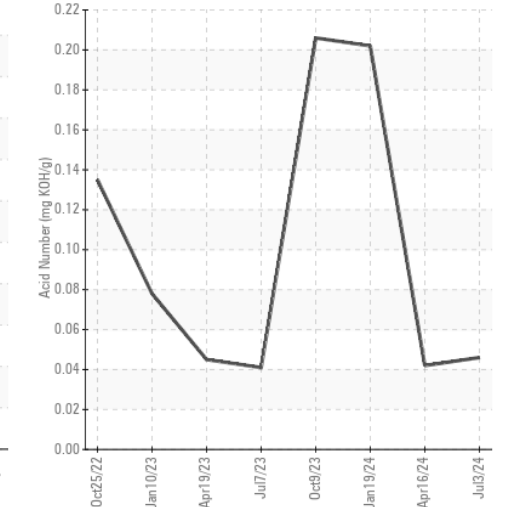
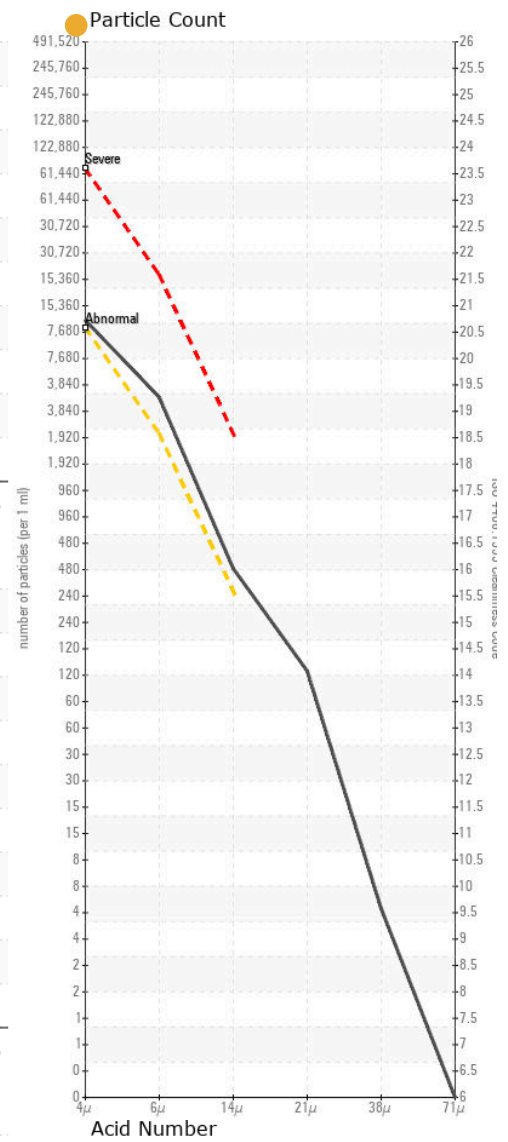
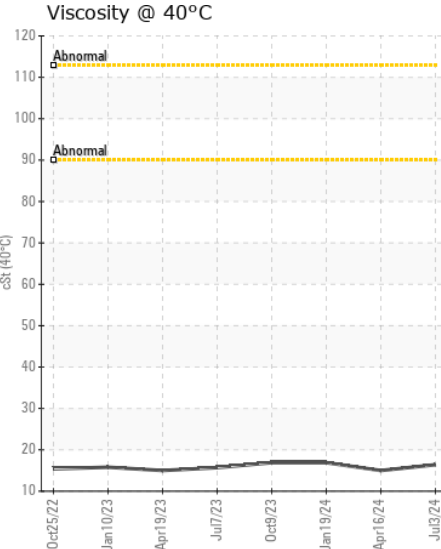
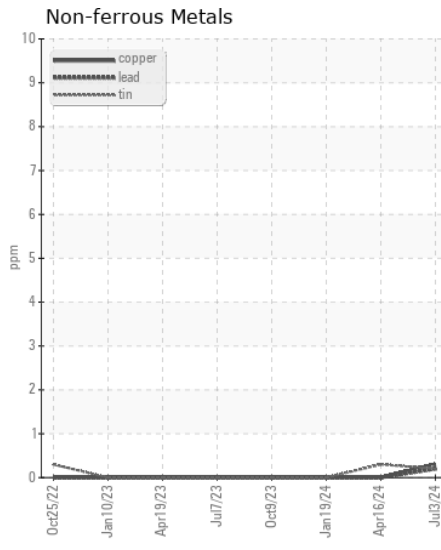
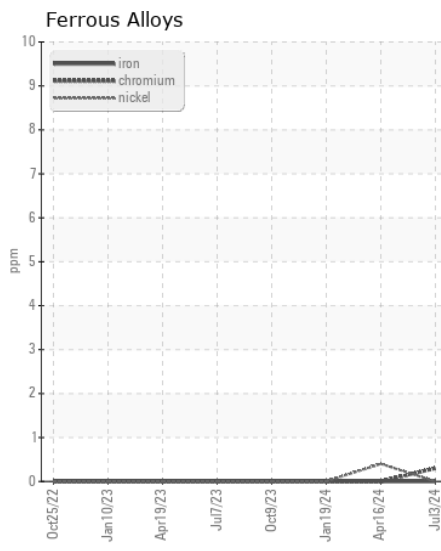
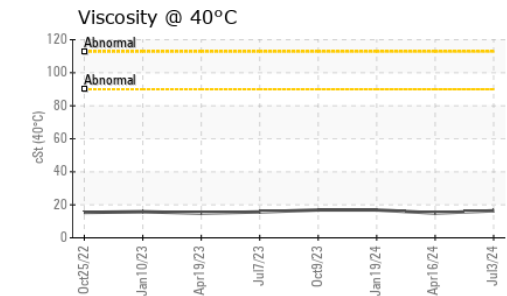
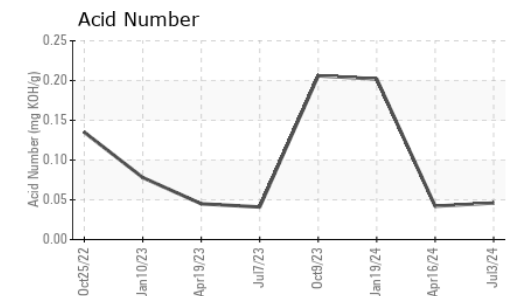
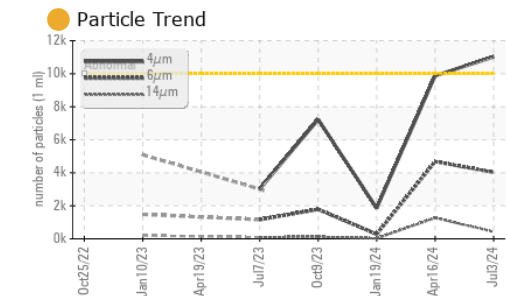
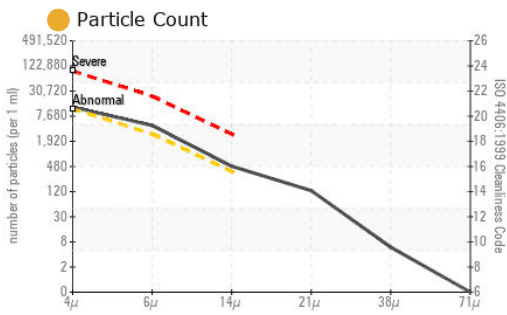
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	11024	9874	1862
Particles >6µm		ASTM D7647	>2500	4024	4680	277
Particles >14µm		ASTM D7647	>320	428	1271	25
Particles >21µm		ASTM D7647	>80	112	584	8
Particles >38µm		ASTM D7647	>20	5	48	0
Particles >71µm		ASTM D7647	>4	0	2	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/19/16	20/19/17	18/15/12
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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		8	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		19	1	0
Calcium	ppm	ASTM D5185m		31	0	0
Phosphorus	ppm	ASTM D5185m		1046	437	444
Zinc	ppm	ASTM D5185m		16	0	2
Sulfur	ppm	ASTM D5185m		119	0	105
Acid Number (AN)	mg KOH/g	ASTM D8045		0.046	0.042	0.202
Visc @ 40°C	cSt	ASTM D445		16.4	15.00	16.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0869387
Lab Number : 06232707
Unique Number : 11116200
Test Package : PLANT

AAR LANDING GEAR SERVICES
 9371 NW 100TH STREET
 MIAMI, FL
 US 33178
 Contact: SANDRA LOPEZ
 sandra.lopez@aarcorp.com
 T: (305)887-4027
 F: (305)887-6930

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)