



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[6158566]
 Machine Id
NUTAL GEAR 1023-P01B-G03
 Component
Gearbox
 Fluid
SHELL OMALA RL ISO 150 (2 GAL)

RECOMMENDATION

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		WC0851098	WC0458848	WCM1315204
Sample Date		Client Info		08 Jul 2024	02 Jul 2020	09 Jul 2018
Machine Age	hrs	Client Info		251048	216248	19892
Oil Age	hrs	Client Info		29740	104640	87312
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	56	9	13
Chromium	ppm	ASTM D5185m	>10	8	<1	<1
Nickel	ppm	ASTM D5185m	>10	4	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>50	0	<1	1
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

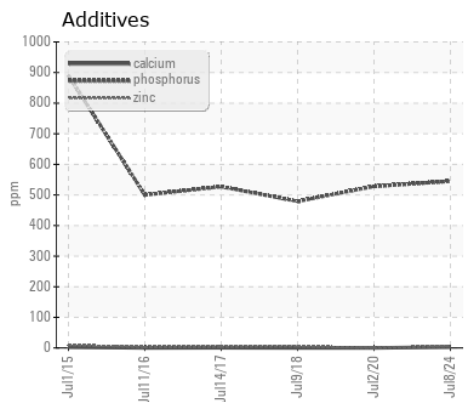
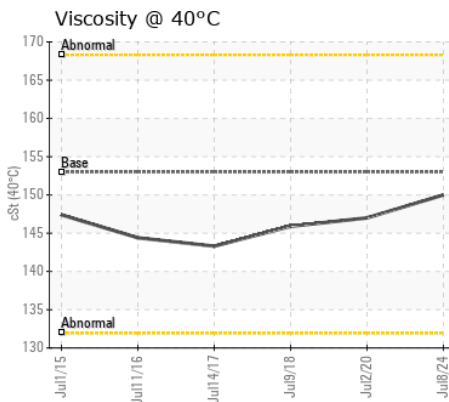
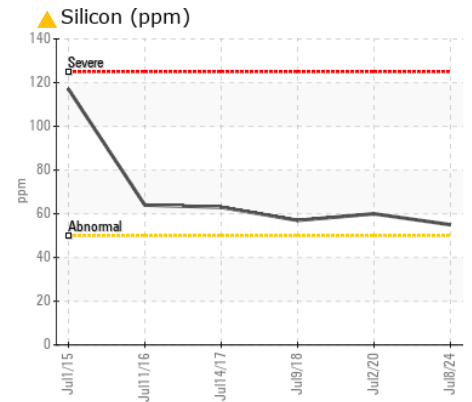
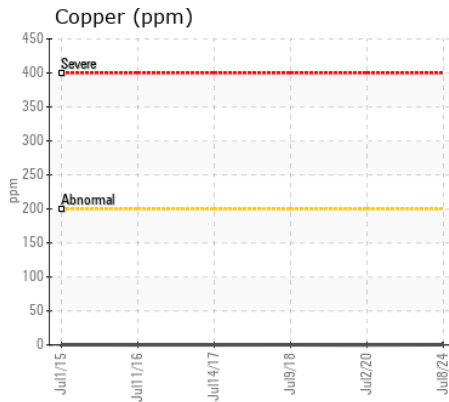
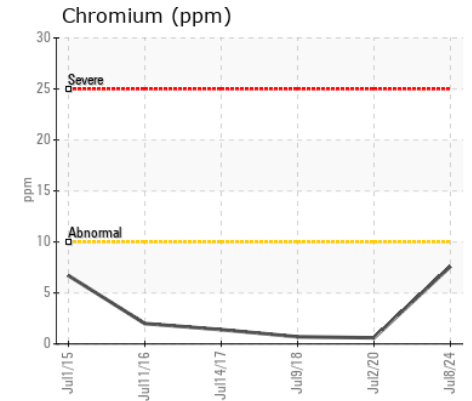
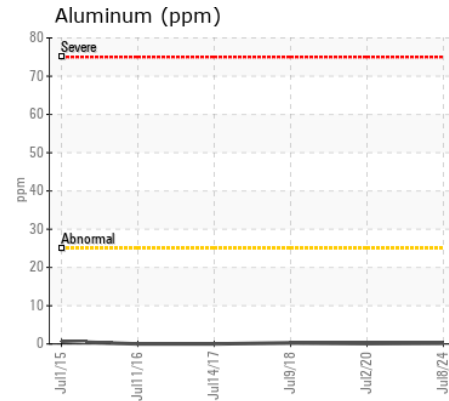
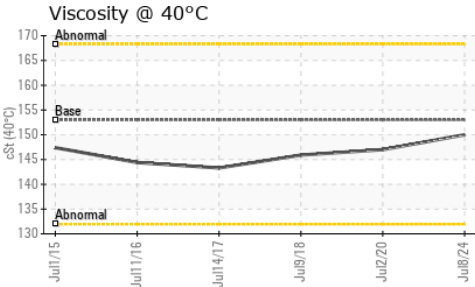
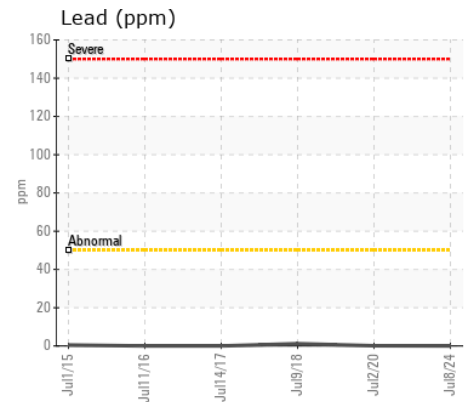
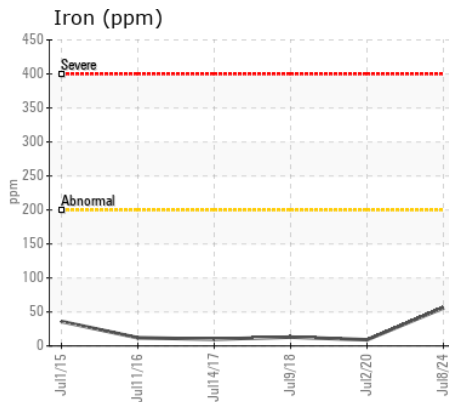
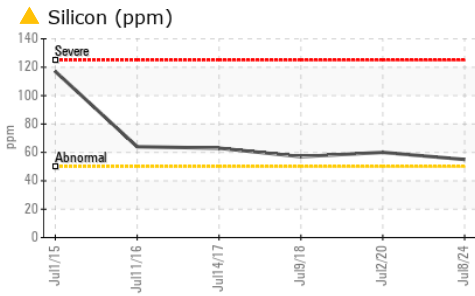
Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	▲ 55	▲ 60	▲ 57
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	▲ MODER
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	0	<1
Boron	ppm	ASTM D5185m		3	1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		3	0	0
Phosphorus	ppm	ASTM D5185m	302	545	528	479
Zinc	ppm	ASTM D5185m		5	0	5
Sulfur	ppm	ASTM D5185m	833	703	294	654
Visc @ 40°C	cSt	ASTM D445	153	150	147	145.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0851098
 Lab Number : 06231812
 Unique Number : 11115305
 Test Package : MOB 1

Received : 09 Jul 2024
 Tested : 10 Jul 2024
 Diagnosed : 11 Jul 2024 - Jonathan Hester

ALPEK POLYESTER - DAK AMERICAS LLC
 3216 CEDAR CREEK RD.
 FAYETTEVILLE, NC
 US 28312
 Contact: RONNIE HUDSON
 rhudson@alpekpolyester.com
 T: (910)433-8361
 F: (910)433-8218

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)