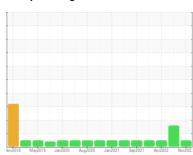


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



PRESS 3 STRETCHER

Component

Hydraulic System

TEXACO RANDO OIL HD 68 (--- QTS)

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.

		Nov2018 Ma	y2019 Jan2020 Aug20	20 Jan2021 Sep2021 Apr20	22 Nov202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0782214	WC0690884	WC0573685
Sample Date		Client Info		03 Nov 2023	24 Jan 2023	06 Apr 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				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	<1	1	<1
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m				
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	0.2	0	0	1
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	39	44	46
Calcium	ppm	ASTM D5185m	49	36	42	40
Phosphorus	ppm	ASTM D5185m	247	356	370	369
Zinc	ppm	ASTM D5185m	323	360	383	370
Sulfur	ppm	ASTM D5185m	4717	890	907	827
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		5	0	2
Potassium	ppm	ASTM D5185m	>20	0	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		2.3	2.5	2.5
Sulfation	Abs/.1mm	*ASTM D7415		11.2	10.8	11.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	927	▲ 13329	504
Particles >6µm		ASTM D7647	>1300	230	△ 3579	89
Particles >14µm		ASTM D7647	>160	15	<u> </u>	9
Particles >21µm		ASTM D7647	>40	4	37	3
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	1	0
0'1 0' ''		100 1100 ()	1011-111	4=14=144		10111110

ISO 4406 (c) >19/17/14

17/15/11

Oil Cleanliness

<u>\</u> 21/19/15

16/14/10



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

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

: WC0782214 : 06001021 : 10729381 Test Package : IND 2 (Additional Tests: FT-IR)

Received : 07 Nov 2023 Diagnosed : 09 Nov 2023 Diagnostician : Don Baldridge

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) KAISER ALUMINUM

1901 REYMET RD NORTH CHESTERFIELD, VA

US 23237 Contact: Yong Quan

Yong.Quan@kaiseraluminum.com

T: (804)743-6485

Report Id: KAIRICVA [WUSCAR] 06001021 (Generated: 11/13/2023 04:49:32) Rev: 1