

OIL ANALYSIS REPORT

MELT SHOP - HYDRAULIC MELT SHOP LTS DE SLAG HYDRAULIC UNIT (S/N 15-4000-0770) Component

Tank Hydraulic System Fluid

FIRE-RESISTANT FLUID ISO 46 (200 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

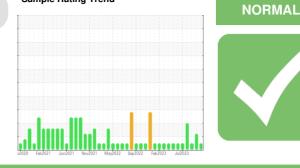
All component wear rates are normal.

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 pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

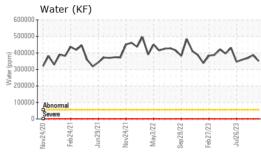


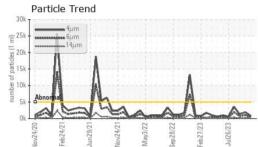
Sample Rating Trend

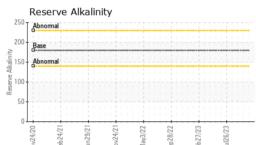
		v2020 Feb20		May2022 Sep2022 Feb2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038012	RP0037961	RP0035497
Sample Date		Client Info		06 Dec 2023	07 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	0
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	5	3	0	3
Calcium	ppm	ASTM D5185m	50	2	0	2
Phosphorus	ppm	ASTM D5185m	175	10	0	4
Zinc	ppm	ASTM D5185m	62	17	0	8
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>55	35.1	38.6	36.8
ppm Water	ppm	ASTM D6304	>55000	351000	386000	368000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	809	1949	1279
Particles >6µm		ASTM D7647	>1300	441	1062	697
Particles >14µm		ASTM D7647	>160	75	1 81	119
Particles >21µm		ASTM D7647	>40	25	6 1	40
Particles >38µm		ASTM D7647	>10	4	9	6
Partialaa 71um		ASTM D7647	>3	0	1	1
Particles >71µm		10110101041	20	Ū	1	1



OIL ANALYSIS REPORT







30

<u>₽</u>25k

1) 20k 15k

101 101 51

5

01

250

200

150

50

Alkalinih

eserve 100

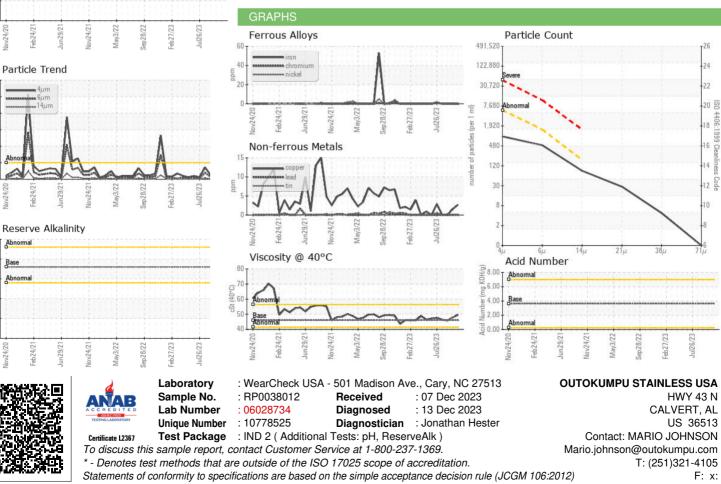
jii

VISUAL		method				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	>55	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.0	11.0	11.0
Visc @ 40°C	cSt	ASTM D445	46	49.5	47.8	45.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



Page 2 of 2