

## **OIL ANALYSIS REPORT**

## MELT SHOP - HYDRAULIC MELT SHOP GRINDER LUBE TANK (S/N 15-4000-0770) Component

**Tank Bulk Fluid Tank** Fluid

FIRE-RESISTANT FLUID ISO 68 (275 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

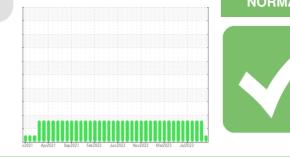
All component wear rates are normal.

#### Contamination

The water content is negligible. 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 Rating Trend

SAMPLE INFORM	<b>1ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038071	RP0037960	RP0034956
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	ABNORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		9	2	2
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	4
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		1	0	0
Tin	ppm	ASTM D5185m		<1	1	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	5	0	<1	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	0	<1	4
Calcium	ppm	ASTM D5185m	50	3	1	0
Phosphorus	ppm	ASTM D5185m	175	591	586	557
Zinc	ppm	ASTM D5185m	62	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>55	0.003	▲ 0.096	<b>0.146</b>
ppm Water	ppm	ASTM D6304	>55000	37	▲ 965.6	▲ 1463.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	19227	968	1965
Particles >6µm		ASTM D7647	>5000	1568	162	443
Particles >14µm		ASTM D7647	>640	55	10	33
Particles >21µm		ASTM D7647	>160	13	3	12
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/13	17/15/10	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 3.63 0.55

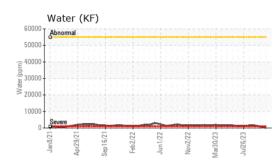
0.52

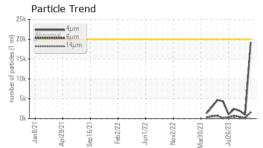
0.48

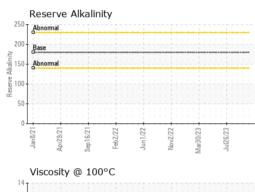
### NORMAL



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VISUAL		mathad	limit/booo	ourropt	biotomut	biotory/0
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	>55	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	70.29	71.09	70.91
Visc @ 100°C	cSt	ASTM D445	8.6	12.75	12.89	12.95
Viscosity Index (VI)	Scale	ASTM D2270	96	183	184	185
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						

Bottom

