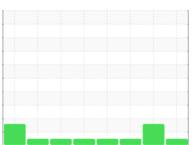


## **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **LINE 11 - SCOTT POWER PACK**

Hydraulic System

**MOBIL DTE 10 EXCEL 68 (15 GAL)** 

Ν		

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

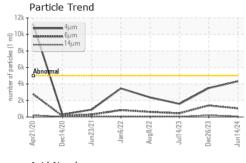
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

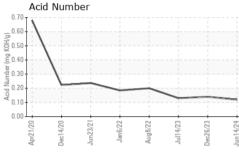
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         <1           Chromium         ppm         ASTM D5185m         >20         <1         0         0           Nickel         ppm         ASTM D5185m         >20         <1         0         0           Silver         ppm         ASTM D5185m         >20         <1         0         0           Aluminum         ppm         ASTM D5185m         >20         <2         0         2           Lead         ppm         ASTM D5185m         >20         <1         0         <1           Copper         ppm         ASTM D5185m         >20         <1         <1         <1           Copper         ppm         ASTM D5185m         >20         <1         <1         <1           Copper         ppm         ASTM D5185m         >20         <1         <1         <1         <1           Copper         ppm         ASTM D5185m         <1         0         0         <0         <0         <0         <0         <0         <0         <0			Apr2020 D	lec2020 Jun2021 Jan203	22 Aug2022 Jul2023 Dec202	3 Jun2024	
Sample Number   Client Info   WC0955084   WC0893613   WC0838551   Sample Date   Client Info   I4 Jun 2024   26 Dec 2023   14 Jul 2023   Machine Age   hrs   Client Info   0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history?
Sample Date		ATION		IIIIIII Dase		· ·	
Machine Age   hrs   Client Info   0   0   0   0   0   0   0   0   0	·						
Oil Age Oil Changed         hrs         Client Info         N/A         N/	•						
Coli   Changed   Client Info   N/A   N/A   N/A   NORMAL   ATTENTION   NORMAL   NORMAL   ATTENTION   NORMAL   NORMAL   ATTENTION   NORMAL   NORMAL   ATTENTION   ATTENTION   NORMAL   ATTENTION   ATTENT			00		-		
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM DS185m         >20         <1         0         <1           Chromium         ppm         ASTM DS185m         >20         <1         0         0           Nickel         ppm         ASTM DS185m         >20         <1         0         0           Silver         ppm         ASTM DS185m         >20         <1         0         0           Aluminum         ppm         ASTM DS185m         >20         2         0         2           Aluminum         ppm         ASTM DS185m         >20         1         <1         <1           Copper         ppm         ASTM DS185m         >20         1         <1         <1           Tin         ppm         ASTM DS185m         >20         1         <1         <1           Copper         ppm         ASTM DS185m         <1         0         0	•	hrs			-		Ü
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         <1           Chromium         ppm         ASTM D5185m         >20         <1         0         0           Nickel         ppm         ASTM D5185m         >20         <1         0         0           Silver         ppm         ASTM D5185m         <1         0         0         0           Aluminum         ppm         ASTM D5185m         >20         1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1			Client Info		,	,	,
Water         WC Method         >0.05         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1	'				NORMAL	ATTENTION	NORMAL
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1         0         <1           Chromium         ppm         ASTM D5185m         >20         <1         0         0           Nickel         ppm         ASTM D5185m         >20         <1         0         0           Silver         ppm         ASTM D5185m         <1         0         0         0           Alluminum         ppm         ASTM D5185m         >20         2         0         2           Lead         ppm         ASTM D5185m         >20         1         <1         <1           Copper         ppm         ASTM D5185m         >20         1         <1         <1           Tin         ppm         ASTM D5185m         >20         1         <1         <1           Coadmium         ppm         ASTM D5185m         >20         <1         0         0           Boron         ppm         ASTM D5185m         <1         0         0         0           Barium         ppm         ASTM D5185m         <1         0         0	CONTAMINATION	١	method	limit/base	current	history1	history2
Description	Water		WC Method	>0.05	NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>20	<1	0	<1
Titanium ppm ASTM D5185m <1 0 0 0  Aluminum ppm ASTM D5185m <1 0 0 0  Aluminum ppm ASTM D5185m >20 2 0 2  Lead ppm ASTM D5185m >20 1 0 0 <1  Copper ppm ASTM D5185m >20 1 0 0 0  Vanadium ppm ASTM D5185m >20 1 0 0 0  Vanadium ppm ASTM D5185m >20 1 0 0 0  Vanadium ppm ASTM D5185m >20 1 0 0 0  Vanadium ppm ASTM D5185m >20 1 0 0 0  ADDITIVES method limit/base current history1 history2  Boron ppm ASTM D5185m <1 0 0 0  ADDITIVES method limit/base current history1 history2  Boron ppm ASTM D5185m <1 0 0 0  Molybdenum ppm ASTM D5185m <1 0 0 0  Manganese ppm ASTM D5185m <1 0 0 0  Manganese ppm ASTM D5185m <1 0 0 0  Manganese ppm ASTM D5185m <1 0 0 7  Calcium ppm ASTM D5185m <1 0 7  Calcium ppm ASTM D5185m Sp 99 93 108  Phosphorus ppm ASTM D5185m Sp 99 93 108  Zinc ppm ASTM D5185m Sp 99 93 108  CONTAMINANTS method limit/base current history1 history2  CONTAMINANTS method limit/base current history1 history2  FLUID CLEANLINESS method limit/base current history1 history2  Particles >4μm ASTM D7647 >5000 4318 3491 1584  Particles >6μm ASTM D7647 >1300 1040 1390 451  Particles >21μm ASTM D7647 >10 1 6 0  Particles >71μm ASTM D7647 >3 1 1 0  Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 19/18/15 18/16/13	Chromium	ppm	ASTM D5185m	>20	<1	0	0
Silver	Nickel	ppm	ASTM D5185m	>20	<1	0	0
Aluminum         ppm         ASTM D5185m         >20         2         0         2           Lead         ppm         ASTM D5185m         >20         1         0         <1           Copper         ppm         ASTM D5185m         >20         1         <1         <1           Tin         ppm         ASTM D5185m         >20         <1         0         0           Vanadium         ppm         ASTM D5185m         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         0         0           Cadmium         ppm         ASTM D5185m         <1         0         0           Boron         ppm         ASTM D5185m         <1         0         0           Boron         ppm         ASTM D5185m         <1         0         0           Molybdenum         ppm         ASTM D5185m         <1         0         0           Magnesium         ppm         ASTM D5185m         <1         <1         0         <1           Calcium         ppm         ASTM D5185m         <1         0         <1         <1           Calcium         ppm         ASTM D5185m         <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead         ppm         ASTM D5185m         >20         1         0         <1	Silver	ppm	ASTM D5185m		<1	0	0
Copper         ppm         ASTM D5185m         >20         1         <1	Aluminum	ppm	ASTM D5185m	>20	2	0	2
Tin ppm ASTM D5185m >20 <1 0 0 Vanadium ppm ASTM D5185m	Lead	ppm	ASTM D5185m	>20	1	0	<1
Vanadium         ppm         ASTM D5185m         <1	Copper	ppm	ASTM D5185m	>20	1	<1	<1
Cadmium         ppm         ASTM D5185m         <1	Tin	ppm	ASTM D5185m	>20	<1	0	0
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         <1         0         0           Molybdenum         ppm         ASTM D5185m         <1         0         0           Magnesium         ppm         ASTM D5185m         <1         0         <1           Magnesium         ppm         ASTM D5185m         <1         0         <1           Calcium         ppm         ASTM D5185m         99         93         108           Phosphorus         ppm         ASTM D5185m         99         93         108           Phosphorus         ppm         ASTM D5185m         99         93         108           Zinc         ppm         ASTM D5185m         8         0         7           Sulfur         ppm         ASTM D5185m         1515         1272         1694           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         0	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         <1	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		<1	0	0
Magnesium         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		<1	0	0
Calcium         ppm         ASTM D5185m         99         93         108           Phosphorus         ppm         ASTM D5185m         418         426         459           Zinc         ppm         ASTM D5185m         8         0         7           Sulfur         ppm         ASTM D5185m         1515         1272         1694           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         >20         <1         1         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >5000         4318         3491         1584           Particles >6µm         ASTM D7647         >160         71         223         45           Particles >21µm         ASTM D7647         >40         16         85         12	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus         ppm         ASTM D5185m         418         426         459           Zinc         ppm         ASTM D5185m         8         0         7           Sulfur         ppm         ASTM D5185m         1515         1272         1694           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         >20         <1         1         <1           Potassium         ppm         ASTM D5185m         >20         <1         1         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         4318         3491         1584           Particles >6μm         ASTM D7647         >1300         1040         1390         451           Particles >21μm         ASTM D7647         >40         16         85         12           Particles >38μm         ASTM D7647         >3         1         1         0           Particl	Magnesium	ppm	ASTM D5185m		<1	0	<1
Zinc   ppm   ASTM D5185m   8   0   7   1694	Calcium	ppm	ASTM D5185m		99	93	108
Sulfur         ppm         ASTM D5185m         1515         1272         1694           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         0         3         0           Potassium         ppm         ASTM D5185m         >20         <1         1         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         4318         3491         1584           Particles >6μm         ASTM D7647         >1300         1040         1390         451           Particles >14μm         ASTM D7647         >160         71         223         45           Particles >21μm         ASTM D7647         >40         16         85         12           Particles >38μm         ASTM D7647         >3         1         1         0           Particles >71μm         ASTM D7647         >3         1         1         0           Oil Cleanliness         <	Phosphorus	ppm	ASTM D5185m		418	426	459
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >15         <1         0         0           Sodium         ppm         ASTM D5185m         0         3         0           Potassium         ppm         ASTM D5185m         >20         <1         1         <1           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         4318         3491         1584           Particles >6μm         ASTM D7647         >1300         1040         1390         451           Particles >14μm         ASTM D7647         >160         71         223         45           Particles >21μm         ASTM D7647         >40         16         85         12           Particles >38μm         ASTM D7647         >10         1         6         0           Particles >71μm         ASTM D7647         >3         1         1         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/13         19/18/15         18/16/13	Zinc	ppm	ASTM D5185m		8	0	7
Silicon         ppm         ASTM D5185m         >15         <1	Sulfur	ppm	ASTM D5185m		1515	1272	1694
Sodium         ppm         ASTM D5185m         0         3         0           Potassium         ppm         ASTM D5185m         >20         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         <1	Silicon	ppm	ASTM D5185m	>15	<1	0	0
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >5000         4318         3491         1584           Particles >6μm         ASTM D7647         >1300         1040         1390         451           Particles >14μm         ASTM D7647         >160         71         223         45           Particles >21μm         ASTM D7647         >40         16         85         12           Particles >38μm         ASTM D7647         >10         1         6         0           Particles >71μm         ASTM D7647         >3         1         1         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/13         19/18/15         18/16/13	Sodium		ASTM D5185m		0	3	0
Particles >4μm       ASTM D7647       >5000       4318       3491       1584         Particles >6μm       ASTM D7647       >1300       1040       1390       451         Particles >14μm       ASTM D7647       >160       71       223       45         Particles >21μm       ASTM D7647       >40       16       85       12         Particles >38μm       ASTM D7647       >10       1       6       0         Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Particles >6μm         ASTM D7647         >1300         1040         1390         451           Particles >14μm         ASTM D7647         >160         71         223         45           Particles >21μm         ASTM D7647         >40         16         85         12           Particles >38μm         ASTM D7647         >10         1         6         0           Particles >71μm         ASTM D7647         >3         1         1         0           Oil Cleanliness         ISO 4406 (c)         >19/17/14         19/17/13         19/18/15         18/16/13	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm       ASTM D7647       >160       71       223       45         Particles >21μm       ASTM D7647       >40       16       85       12         Particles >38μm       ASTM D7647       >10       1       6       0         Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Particles >4µm		ASTM D7647	>5000	4318	3491	1584
Particles >14μm       ASTM D7647       >160       71       223       45         Particles >21μm       ASTM D7647       >40       16       85       12         Particles >38μm       ASTM D7647       >10       1       6       0         Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Particles >6µm		ASTM D7647	>1300	1040	1390	451
Particles >21μm       ASTM D7647       >40       16       85       12         Particles >38μm       ASTM D7647       >10       1       6       0         Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Particles >14µm					223	
Particles >38μm       ASTM D7647       >10       1       6       0         Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Particles >21µm			>40	16	85	12
Particles >71μm       ASTM D7647       >3       1       1       0         Oil Cleanliness       ISO 4406 (c)       >19/17/14       19/17/13       19/18/15       18/16/13	Particles >38µm		ASTM D7647	>10			0
Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 19/18/15 18/16/13	Particles >71µm				1	1	0
FLUID DEGRADATION method limit/base current history1 history2	Oil Cleanliness				19/17/13	19/18/15	18/16/13
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

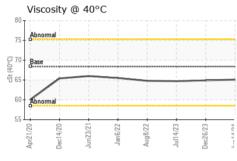
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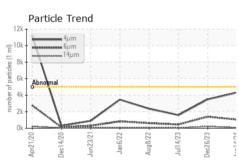


## **OIL ANALYSIS REPORT**









VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

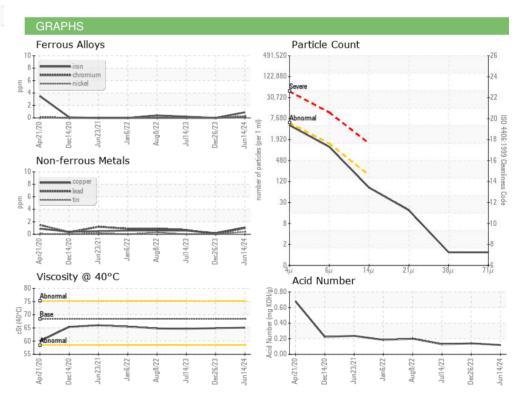
Visc @ 40°C	cSt	ASTM D445	68.4	65.1	64.9	64.7

Color



SAMPLE IMAGES









Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: WC0955084 Lab Number : 06213411 Unique Number : 11086275

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** 

: 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

Altium Packaging - WEST CHICAGO - DUPAGE - Plant 1123A 1300 NORTHWEST AVE

WEST CHICAGO, IL US 60185 Contact: DALE HARRISON

dale.harrison@altiumpkg.com T: x:

\* - 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)

F: x:

Contact/Location: DALE HARRISON - CONSTR